

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

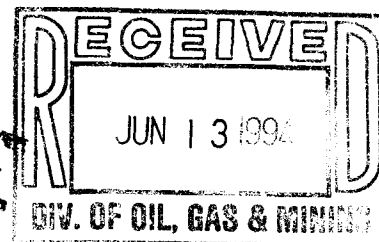
1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. 14-20-603-373 (BIA)
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo
2. NAME OF OPERATOR Harken Southwest Corporation		7. UNIT AGREEMENT NAME
3. ADDRESS AND TELEPHONE NO. P. O. Drawer 612007, Dallas, TX 75261 (817) 695-4900		8. FARMOR/LEASE NAME, WELL NO. Clay Hill Canyon 32D
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 744' FNL & 378' FWL At proposed prod. zone 467' FNL & 860' FWL		9. API WELL NO.
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 16 miles SE of Montezuma Creek Utah		10. FIELD AND POOL, OR WILDCAT Wildcat
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) Surface 378' FWL	16. NO. OF ACRES IN LEASE 2522	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 32 41S 25E
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	19. PROPOSED DEPTH 5570 TVD/5680' MD	12. COUNTY OR PARISH San Juan
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 4653' GL/4666' KB		13. STATE UT
22. APPROX. DATE WORK WILL START* July 15, 1994		

23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 - 1/4"	K-55	24#	425'	305 SX Class "G"
7 - 7/8"	K-55	15.5#	5680' (MD)	Stage Cement
Detailed on page 2 of Ten Point Drilling Plan				

Attached:

Detailed Drilling Program
Ten Point Drilling Plan
Surface Use Plan
Attachments & Exhibits as referenced (10)

~~CONFIDENTIAL~~



cc: State of Utah

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

SIGNED [Signature] TITLE Production Administrator DATE 5-31-94
(This space for Federal or State office use)

PERMIT NO. 43-037-31741 APPROVAL DATE 6/24/94

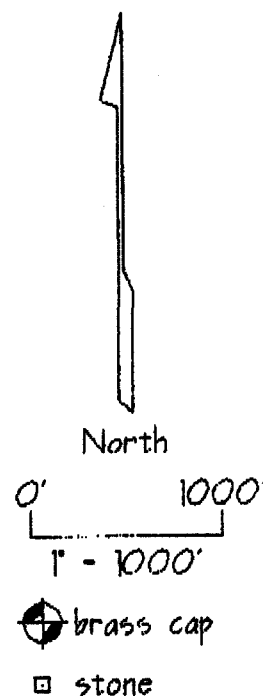
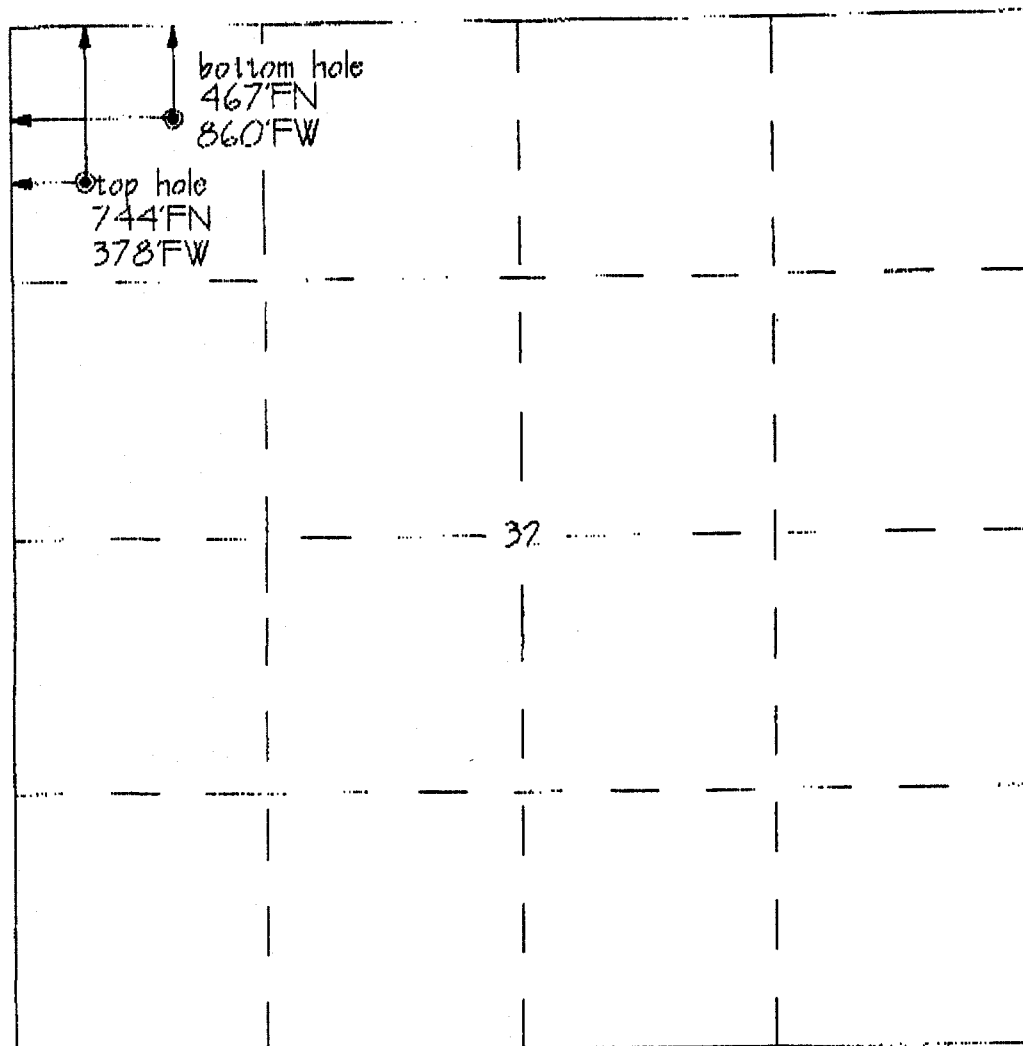
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:

BY: [Signature] WELL SPACING: 649-3-2

APPROVED BY _____ TITLE _____

*See Instructions On Reverse Side

Well Location PlatWell Location Description

HARKIN SOUTHWEST CORPORATION

Clay Hill Canyon 32-D

744' FNL & 378' FWL (top hole)

467' FNL & 860' FWL (bottom hole)

Section 32, T.41 S., R.75 E., SLM

San Juan County, Utah

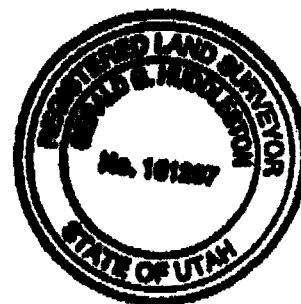
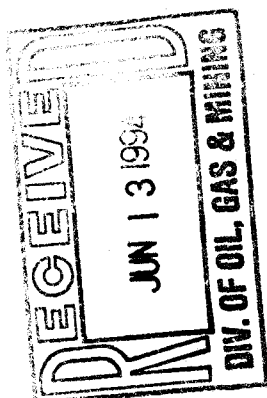
4653' ground elevation from seismic

State plane coordinates from seismic control

x = 2,668,718 y = 196,481 (top hole)

x = 2,669,201 y = 196,758 (bottom hole)

sta. 243.88, 45'rt. line WMT - 07 swath



rev: 26 MAY 1994

Gerald G. Huddleston

Gerald G. Huddleston, L.S.

The above is true and correct to my knowledge and belief.

Form 3160-3
(July 1992)SUBMIT IN TRIPLICATE*
(Other instructions on
reverse side)FORM APPROVED
OMB NO. 1004-0136
Expires: February 28, 1995UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐

670 FARMINGTON, NM

b. TYPE OF WELL

OIL

☒

GAS

☐

OTHER

SINGLE

☐

MULTIPLE

☐

c. NAME OF OPERATOR

Harken Southwest Corporation

d. ADDRESS AND TELEPHONE NO.

P. O. Drawer 612007, Dallas, TX 75261 (817) 695-4900

e. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

744' FNL & 378' FWL

At proposed prod. zone

467' FNL & 860' FWL

f. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

16 miles SE of Montezuma Creek, Utah

g. DISTANCE FROM PROPOSED

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any)

Surface 378' FWL

h. NO. OF ACRES IN LEASE

2522

i. NO. OF ACRES ASSIGNED

TO THIS WELL

80

j. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,

OR APPLIED FOR, ON THIS LEASE, FT.

k. PROPOSED DEPTH

5570' IVN 5680' MD

l. ROTARY OR CABLE TOOLS

Rotary

m. ELEVATIONS (Show whether DF, BT, GE, etc.)

4650' SL/4666' KB

This action is subject to
procedural review p
and appeal pursuant

43 CFR 3165.5

A 3165.6.

n. APPROX. DATE WORK WILL START*

July 15, 1994

o. PROPOSED CASING AND CEMENTING PROGRAM

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED

"GENERAL REQUIREMENTS"

SIZE OF HOLE

GRADE SIZE OF CASING

WEIGHT PER FOOT

SETTING DEPTH

12 - 1/4"

K-55

24#

425'

7 - 7/8"

K-55

15.5#

5680' (MD)

305 SX Class "G"

Stage Cement

Detailed on page 2 of Ten Point
Drilling Plan

Detailed Drilling Program

Ten Point Drilling Plan

Surface Use Plan

Attachments & Exhibits as referenced (10)

cc: State of Utah

IN ABOVE SPACE DISCLOSE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or produce in new zone, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

Production Administrator

DATE 5-31-94

space for Federal or State office use)

AT NO. 43-037-31741

APPROVAL DATE

APPROVED
AS AMENDED

AUG 18 1994

DISTRICT MANAGER

OPERATOR

Instructions - Reverse Side

APPROVED BY

Form 2160-3
(July 1992)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

FORM APPROVED
OMB NO. 1004-0136
Expires: February 28, 1995

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

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7 - 7/8"	K-55	15.5#	5680' (MD)	Stage Cement
				Detailed on page 2 of Ten Point Drilling Plan

Attached:

Detailed Drilling Program
Ten Point Drilling Plan
Surface Use Plan
Attachments & Exhibits as referenced (10)

cc: State of Utah

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SIGNED: *[Signature]* TITLE: Production Administrator DATE: 5-31-94
(This space for Federal or State office use)

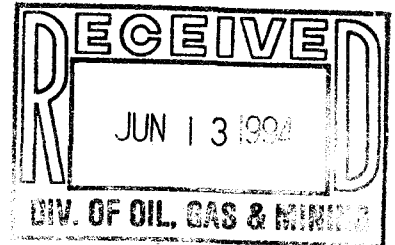
PERMIT NO. APPROVAL DATE
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY: *[Signature]* TITLE: OPERATOR
AUG 18 1994
APPROVED AS AMENDED

HARKEN SOUTHWEST CORPORATION

DETAILED DRILLING PROGRAM

Clay Hill Canyon 32-D
Section 32-41S-25E
Surface: 744' FNL & 378' FWL
Subsurface: 467' FNL & 860' FWL
San Juan County, Utah



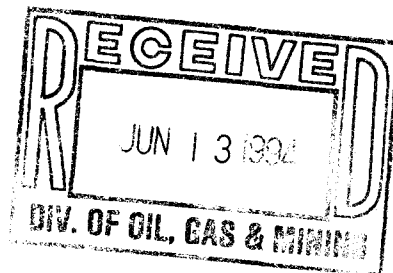
ELEVATION: 4653' GL /4666' KB

PROPOSED TOTAL DEPTH: 5570' TVD / 5680' MD

PROJECTED HORIZON - Primary Target: Desert Creek

GENERAL DRILLING PROCEDURES:

1. Build location and prepare access road. Fence reserve pit on 3 sides. NOTIFY BLM - FARMINGTON NEW MEXICO (505/327-5344) and STATE OF UTAH (801/538-5340) 24 hours prior to spud. NOTE on report the person(s) contacted. Post copies of all regulatory permits in the doghouse. Erect a well location sign.
2. Move in and rig up rotary tools. Report GL to KB measurement and also report any conductor casing depth on IADC tour sheets and morning reports. Have water checked by cementing company for compatibility.
3. Drill mousehole and rathole. Mix mud prior to spudding well.
4. Drill 12-1/4" hole to +/- 425'. Use fresh water gel/lime spud mud for surface hole. Prepare to run deviation surveys at casing point and/or bit trip. Wellbore is not to exceed 1 degree to 425'.
5. RU casing crew to run:
8-5/8", 24#/ft, K-55, STC casing to 425'
Cement with 305 sx of Class "B" cement (1.15 yield; calculated @ 100% excess) with 2% CaCl₂ and 1/4 lb/sx Celloflake. (with sufficient slurry volume to circulate cement to surface).
6. WOC a minimum of 4 hours prior to nipping up for BOP stack and related equipment. See BOP schematics for detail - Exhibit A.

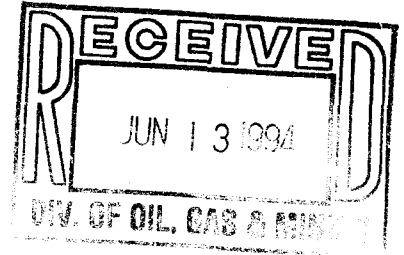


7. Ensure plug has been down at least 8 hours prior to commencing pressure test procedures. Pressure test BOP to 2500 psig for 30 minutes. Pressure test manifold and all related equipment to 2500 psig. Pressure test casing to 2000 psig for 30 minutes. NOTE: Notify BLM - Farmington, New Mexico (505\327-5344) 24 hours prior to BOP test. Note notification and testing results on IADC tour reports.
8. Drill out surface casing with 7-7/8" bit. Drill 7-7/8" hole to \pm 5680' MD/5570' TVD. Deviation surveys are to be taken every 500' or on a bit trip, whichever occurs first down to kick-off point (KOP). KOP is estimated to be at \pm 3225'. Mud motor and directional equipment will be utilized as per Well Profile Data Sheet prepare by Baker Hughes and enclosed as Attachment 5.
9. Run open hole logs and evaluate. Logging and testing will be in accordance with details outline in item 8, *Well Evaluation*, of the Ten Point Drilling Plan. Coring and/or drill stem testing will determined based on the recommendation of the wellsite geologist.
10. If the well is determined to be productive, run 5-1/2" casing to TD, as per casing design outline in item 4, *Proposed Casing/Cementing Program*, of the Ten Point Drilling Plan. In addition to placing centralizers over potential hydrocarbon bearing formations, they will also be run to cover the aquifer sands of the DeChelly formation. Cement production casing in two stages as per the Ten Point Drilling Plan.
 - a. Upon determination of commercial production, completion work will commence upon approval of Sundry Notice outlining procedures. Completion will include, MIRU completion rig, perforate, acidize and testing of each productive porosity zone.
 - b. ND BOPE, set 5-1/2" casing slips and cut off casing. Install wellhead.
11. If the well is determined not to be productive, the wellbore will be plugged as per BIA/BLM and State of Utah requirements.
12. Release drilling rig and move off of location. Note time of rig release on IADC tour report. Fence 4th side of reserve pit immediately upon rig move.. Fill in rathole and mousehole after rig is gone.

HARKEN SOUTHWEST CORPORATION

TEN POINT DRILLING PLAN

Clay Hill Canyon 32-D
Section 31-41S-25E
Surface: 744' FNL & 378' FWL
Subsurface: 467' FNL & 860' FWL
San Juan County, Utah



This well is to be drilled as an exploratory test. The test will be drilled to an approximate depth of 5,570' TVD (\pm 5,680' MD) where it will TD in the top of the Akah formation. Subsurface conditions necessitate that this well be drilled as a directional hole. The surface location will be \pm 500' northeast of the bottom hole location.

1. SURFACE FORMATION:

Geological name of the surface formation: Morrison

2. ELEVATION:

Surface elevation is 4653' GL/4666' KB

3. ESTIMATED TOPS OF GEOLOGICAL MARKERS:

See Attachment 1

ANTICIPATED FORMATIONS FOR WATER, OIL, GAS AND OTHER MINERALS:

Potential Waterbearing formations:

Navajo
DeChelly

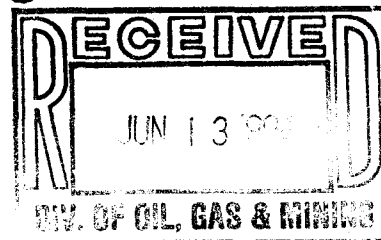
Mineral bearing formations (Oil and/or Gas):

Upper Ismay
Lower Ismay
Desert Creek
Akah

4. PROPOSED CASING/CEMENTING PROGRAM:

	DEPTH (MD)	SIZE	WEIGHT	GRADE	COUPLING
Surface	425'	8-5/8"	24.0 ppf	K-55	STC
Production	5680'	5-1/2"	15.5 ppf	K-55	LTC

Clay Hill Canyon 32D
Harken Southwest Corporation
Ten Point Drilling Plan
Page 2 of 4



SURFACE CEMENTING:

Surface to 425' with 305 sx Class "G" cement with 2% CaCl_2 and 1/4 lb/sx Celloflake. Weight = 15.8 ppg, yield = 1.15 ft^3/sx . Total of 350 ft^3 . Slurry volume will be calculated to 100% excess over annular volume.

PRODUCTION CEMENTING:

Stage 1

TD (\pm 5680' MD) to 3500' MD (Stage collar @ \pm 3500' MD). Lead with 173 sx Class "G" cement, 65:35 Pozmix with 6% gel and 1/4 lb/sx Celloflake. Weight = 12.7 ppg, yield = 1.85 ft^3/sx . Tail with 100 sx Class "G" cement with 2% CaCl_2 . Weight = 15.8 ppg, yield = 1.15 ft^3/sx . Total of 435 ft^3 with 15% excess.

Stage 2

3500' MD -Surface. Lead with 315 sx Class "G" cement, 65:35 Pozmix with 6% gel and 1/4 lb/sx Celloflake. Weight = 12.7 ppg, yield = 1.85 ft^3/sx . Tail with 100 sx Class "G" cement with 2% CaCl_2 . Weight 15.8 ppg, yield 1.15 ft^3/sx . Total of 697 ft^3 @ 15% excess.

NOTE: Exact slurry volumes for the production string will be adjusted according to the caliper log which will be run prior to cementing. Special adjustments may be necessary if significant amounts of salt are drilled.

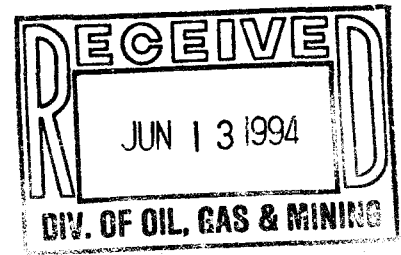
CENTRALIZERS:

8-5/8" Surface String: Center of shoe jt, jt 3, jt 5, jt 7, and surface jt.

NOTE: Put asterisk pipe tally joint for each centralizer installed.

5-1/2" Production String: Center of shoe jt 1, jt 2, jt 4, jt 6, jt 8 and every third jt up to DV Tool @ \pm 3500'/ Four centralizers through DeChelly and two centralizers @ surface.

NOTE: Put asterisk on each pipe tally joint for each centralizer installed



5. BLOWOUT PREVENTER (See Attached Schematics)

As abnormal pressure is not anticipated, a 2000 psi BOP system would be sufficient for the drilling of this well. A 3000 psi system will be used, as per attached Exhibits "A" and "B". This will be a 10" x 900 series double ram preventer, equipped with a set o pipe and blind rams.

An accumulator system, with a pressure capacity sufficient to operate the rams three complete cycles without rig power, will be required as part of the rig equipment.

6. PROPOSED MUD PROGRAM

Surface to \pm 3200' MD

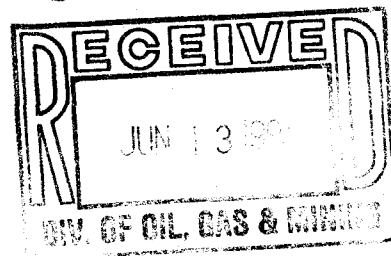
Fresh water, gel, lime and native soils. Weight 8.3 - 8.7 ppg. Gel/lime sweeps are necessary for hole cleaning.

3200' MD - TVD (\pm 5570')

Low solids, non-dispersed polymer system. Weight 8.6 - 8.8 ppg. Gel/lime sweeps as hole conditions dictate for hole cleaning. Fluid loss to be maintained as 15cc or less. Fluid loss to be further reduced to 10 cc or less prior to coring, logging or DST's.

7. AUXILIARY EQUIPMENT

- a. A kelly cock will be installed during drilling operations, with handle available on rig floor.
- b. Full Opening Safety Valves (FOSV) will be available on the rig floor at all times, with necessary subs to fit all of the drilling assemblies.
- c. Mud will be circulating fluid. No abnormal formation pressures are expected.



8. WELL EVALUATION

Electric Log Program:

DLL	TD to 4000'
Sonic (integrated)	TD to surface
CNL-FDC Litho-Density	TD to 4000'
Micro-Log (Optional)	TD to 1000' above TD

Cores:

Sidewall cores are contingent on shows with two 60' cores planned.

DST:

Drill stem testing will be as per the well site geologist recommendations, based on shows. A mud logging unit will be utilized during drilling operations beginning at approximately 4200'MD.

9. ABNORMAL PRESSURES/GAS

Abnormal pressures are not anticipated. monitoring of gas and hydrocarbon shows will be by wellsite mud logging unit. H₂S gas is not anticipated.

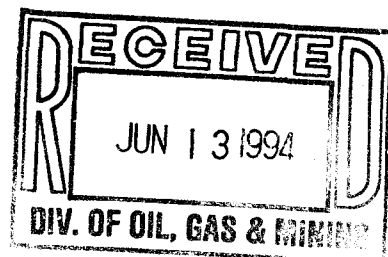
10. TIMING

The drilling and evaluation of this well is estimated to be \pm 18 days. Anticipated drilling will begin on or about July 15, 1994.

HARKEN SOUTHWEST CORPORATION

SURFACE USE PLAN

Clay Hill Canyon 32D
Section 32-41S-25E
Surface: 744' FNL & 378' FWL
Subsurface: 467' FNL & 860' FWL
San Juan County, Utah



1. EXISTING ROADS

The well location is situated approximately 16 miles southeast of Montezuma Creek, Utah by road, or \pm 1.5 miles south of Lone Mountain (Utah). Attachment 2, is a topographic map showing the roads in the immediate area. Approximately 75' of new road will need to be built. Attachment 3, is a topographic vicinity map, showing the location in relation to the nearest town, village and landmark. All existing roads will be maintained in a good and passable condition during drilling operations.

2. PLANNED ACCESS ROAD

Attachment 2, indicates approximately 75' of newly constructed road. The road will be maintained as necessary to prevent excessive damage to the existing terrain. All equipment and vehicles will be instructed to remain on the access road, well pad and areas specified. The road will be upgraded if commercial production is established.

3. EXISTING WELLS

The proposed location is:

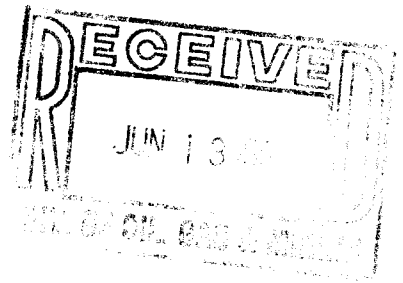
4000' northeast of Big Wash Field (Zollar and Danneberg Federal 116-1).

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

Upon a successful commercial completion, all production facilities will be situated on the drilling location pad. Berm/dike or firewalls will be constructed around all storage facilities sufficient in size to contain liquid incase of rupture.

5. LOCATION AND TYPE OF WATER

Water will be acquired from the San Juan river or McElmo Creek and will be hauled using third party contract water trucks.



6. SOURCE OF CONSTRUCTION MATERIAL

The need for additional construction materials is not anticipated. In the event that additional materials are required, they will be acquired from private sources. No gravel or other related minerals from Federal/Navajo land will be used in construction of roads or wellsite without prior approval from the Surface Managing Agency.

7. METHODS OF HANDLING WASTE MATERIAL

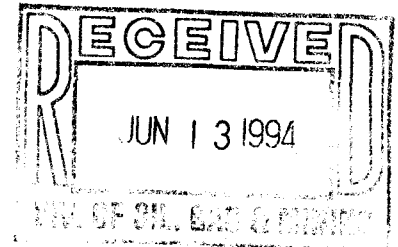
- a. The reserve pit will be designed to prevent the collection of surface runoff. The pit will be lined with a 7 mil liner, for containing drilling fluids. Prior to use, the reserve pit will be fenced on three side, the fourth side will be fenced at the time the drill rig is removed.
- b. Liquid hydrocarbons will be stored in temporary storage tanks and trucked to approved sales facilities.
- c. Garbage and other trash will be contained on location. It will be hauled to an approved disposal site or burned on location if a burning permit is obtained. Any trash on the pad will be cleaned up prior to the rig move off location.
- d. Sewage will be handled in self-contained, chemically treated portable toilets and the contents hauled off location to an authorized sanitary disposal facility.
- e. Upon completion of operations, fluids in the reserve pit will be allowed to evaporate or will be emptied. Upon drying, the pit will be backfilled and the area restored with the natural terrain.

8. ANCILLARY FACILITIES

There will be no ancillary facilities associated with this project, including camps.

9. WELL SITE LAYOUT

- a. Well Pad Layout is detailed in Attachment 4.
- b. Cut and fill requirements due to topography are detailed in Attachment 4(a).

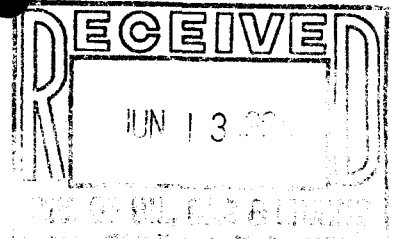


9. WELL SITE LAYOUT (continued)

- c. Reserve pit will be fenced and lined as detailed in item 7(a).
- d. Soil material will not be pushed into drainage. All disturbed soil material will be placed in an area where it can be retrieved for reclamation purposes.

10. SURFACE RECLAMATION PLANS

- a. The reserve pit will be allowed to dry prior to the commencement of backfilling work. No attempts will be made to backfill the reserve pit until the pit is free of standing water. The reserve pit will remain fenced prior to reclamation.
- b. Rat and mouse holes will be filled and compacted from bottom to top immediately upon release of the drilling rig from the location.
- c. All remaining debris will be cleared from the location. Any materials not required for production operations will be removed.
- d. Areas of the well pad which are not needed for production operations will be reshaped as provided below:
 - 1. Unnatural backslopes and foreslopes will be reduced as practical and returned to natural contour.
 - 2. Compacted areas will be plowed or ripped to a depth of 12 to 16 inches prior to reseeding.
 - 3. Natural soil stock piled for reclamation activity will be utilized whenever possible. Additional topsoil will be obtained as necessary to return the terrain as near as possible to its original contour.
- e. In the event of a dry hole, the well site and newly constructed access road will be restored to their approximate original contour. Items d 1, 2 and 3 as listed above will be adhered to. In addition:



10. SURFACE RECLAMATION PLANS (continued)

1. Care will be taken during reshaping of the pad and access road to insure there will be no depressions that will trap water or form ponds.
2. Seed mixture will be drilled to a depth of .5 to .75 inches or broadcast and followed by a drag or packer. Hand broadcasting may occur in areas too steep for machinery. If hand broadcast, the rate below will be 150%. Unless otherwise stipulated the following seed mix will be used:

Indian Ricegrass	3 lbs per acre PLS
Galleta	2 lbs per acre PLS
Needle-N-Thread	3 lbs per acre PLS
Four Winged Saltbrush	2 lbs per acre PLS

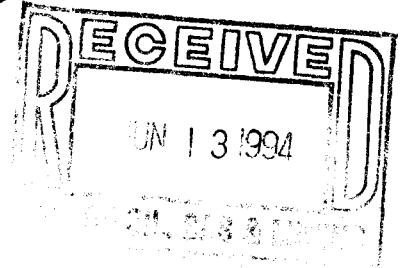
- d. Reclamation operations for the well pad are expected to require approximately 7 to 10 days and will begin when the fluids in the reserve pit are dry for backfilling. Seeding will take place between July and September. If the well is a producer, restoration of unutilized portions of the location will commence as soon as practical after the installation of production facilities, but not later than 12 months after drilling is completed.

11. SURFACE OWNERSHIP

The surface ownership at the well location and access road is Navajo Indian Reservation.

12. BONDING

- a. Bond B03571 applies to operations within the State of Utah in favor of the United States Department of the Interior, Bureau of Land Management
- b. Bond BIA 14-20-603-373 has a Certificate of Deposit (#8015) held at Western Bank, Farmington, New Mexico as a performance bond
- c. All bonding under the name of Chuska Energy Company is currently being updated to Harken Southwest Corporation, pursuant to the name change as set out in the Amendment to the Articles of Incorporation dated 9/93.



13. OTHER INFORMATION


- a. Cultural Resource approval granted to Chuska Energy Company in 1993 for the same location is attached for reference (Attachement 6).
- b. The spud report will be called into the BLM - Farmington, New Mexico (505/327-5344) within 48 hours. Time and date of spud, along with BLM notification and contact, will be noted on drilling report.
- c. The BLM - Farmington, New Mexico will be notified 24 hours in advance of BOP test.
- d. All undesirable events (fire, blowouts, spills, discharges) will be reported to the BLM - Farmington, New Mexico within 24 hours (505/327-5344)

14. REPRESENTATIVE AND CERTIFICATION

Field Representative - Mr. Larry A. Chambers
Engineer
Harken Southwest Corporation
501 Airport Drive, Suite 158
Farmington, New Mexico 87401
(505) 327-5531

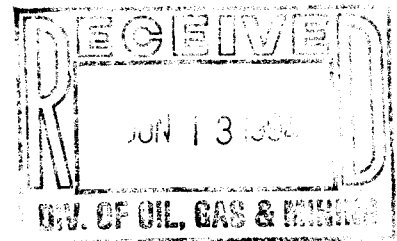
Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions which currently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and that the work associated with operations proposed here in will be performed by Harken Southwest Corporation and its contractors and subcontracts in conformity with this plan and the terms and conditions under which it is approved.


Marshall C. Watson, P.E. - Vice-President

Date: 5-31-94

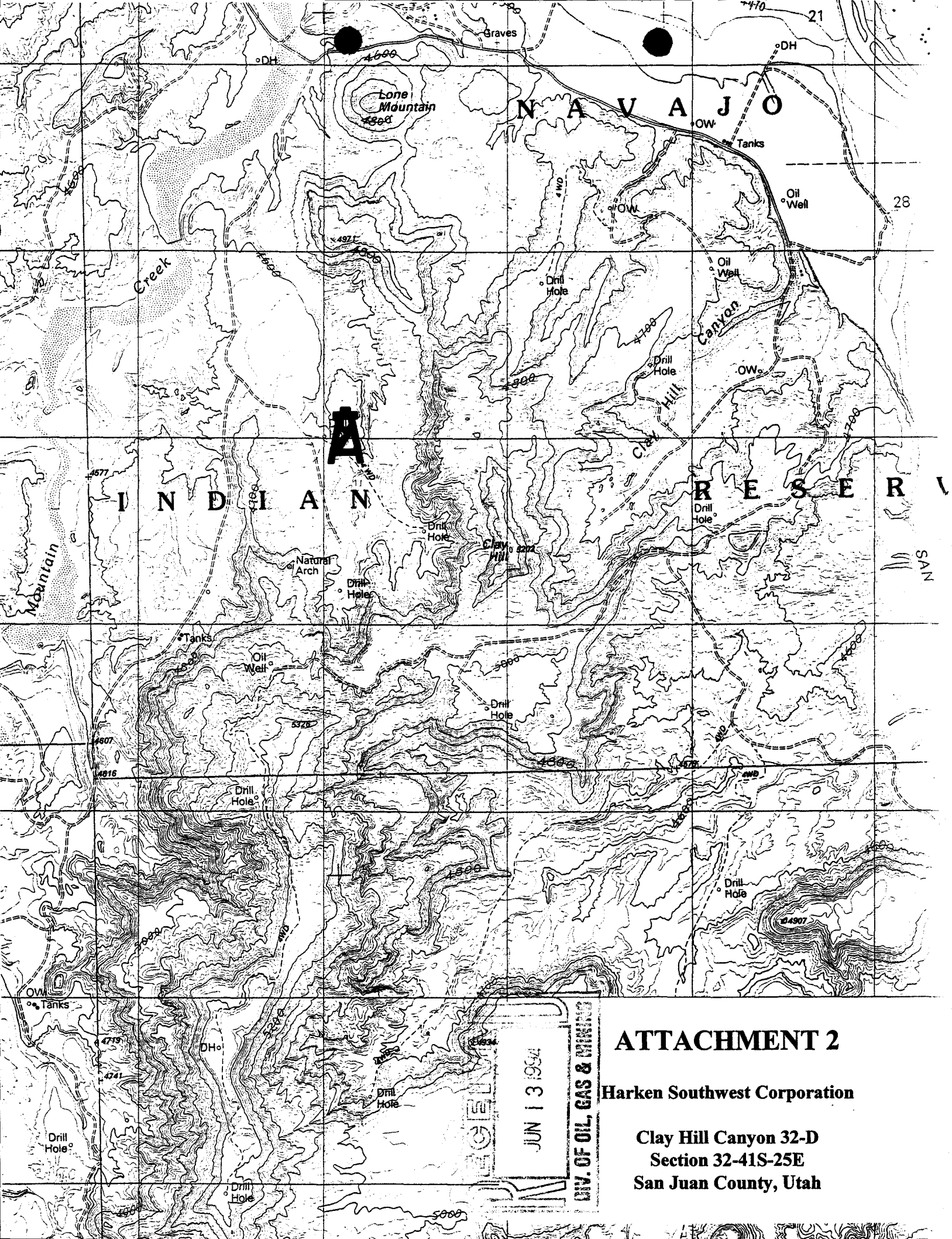
CLAY HILL CANYON 32-D
NWNW SEC. 32 T41S R25E
San Juan County, Utah



FORMATION	LITHOLOGY	MEASURED DEPTH	TVD	PROJECTED TOP SUBSEA
Morrison	Shale			Surface
Navajo	Sandstone	428	428	+4238
chinle	Shale/SltSt/SS	1068	1068	+3598
DeChelly	Sandstone	2043	2043	+2623
Organ Rock	SltSt/Sh/SS	2143	2143	+2523
Cedar Mesa	SltSt/Sh/SS	3243	3243	+1423
Hermosa	SltSt/Sh/SS	4354	4326	+340
Upper Ismay	LS/Dolo/Anhy	5229	5148	-428
Lower Ismay	LS/Dolo/Anhy	5352	5264	-598
Desert Creek	LS/Dolo/Anhy	5452	5358	-692 Primary Obj.
Akah	LS/Anhy/Salt	5622	5518	-852
Total Depth		5676	5568	-920

HARKEN SOUTHWEST CORPORATION

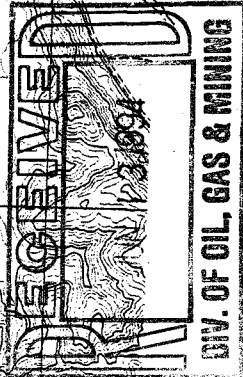
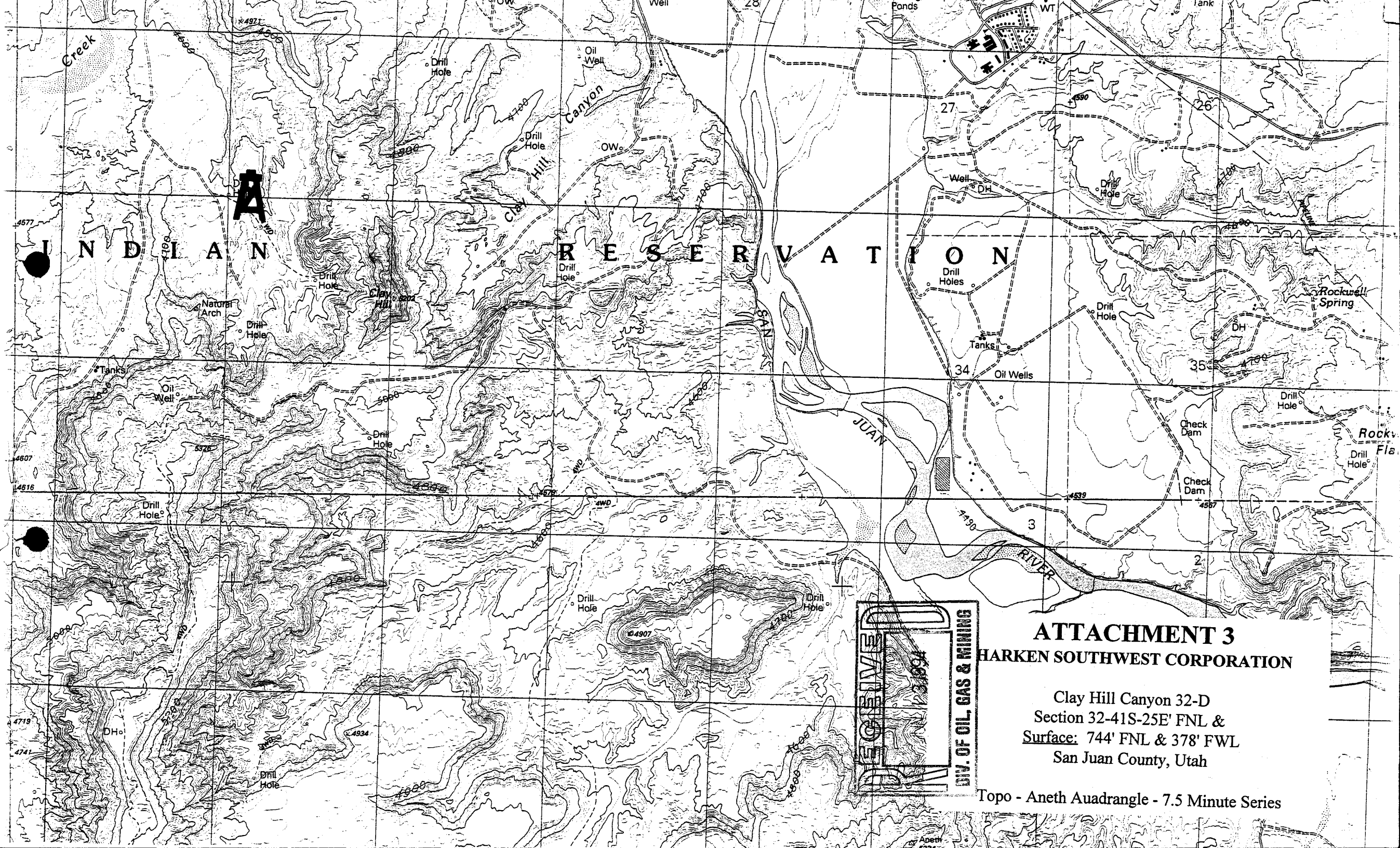
Attachment 1



ATTACHMENT 2

Harken Southwest Corporation

Clay Hill Canyon 32-D
Section 32-41S-25E
San Juan County, Utah



ATTACHMENT 3
HARKEN SOUTHWEST CORPORATION

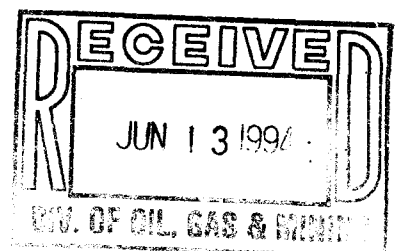
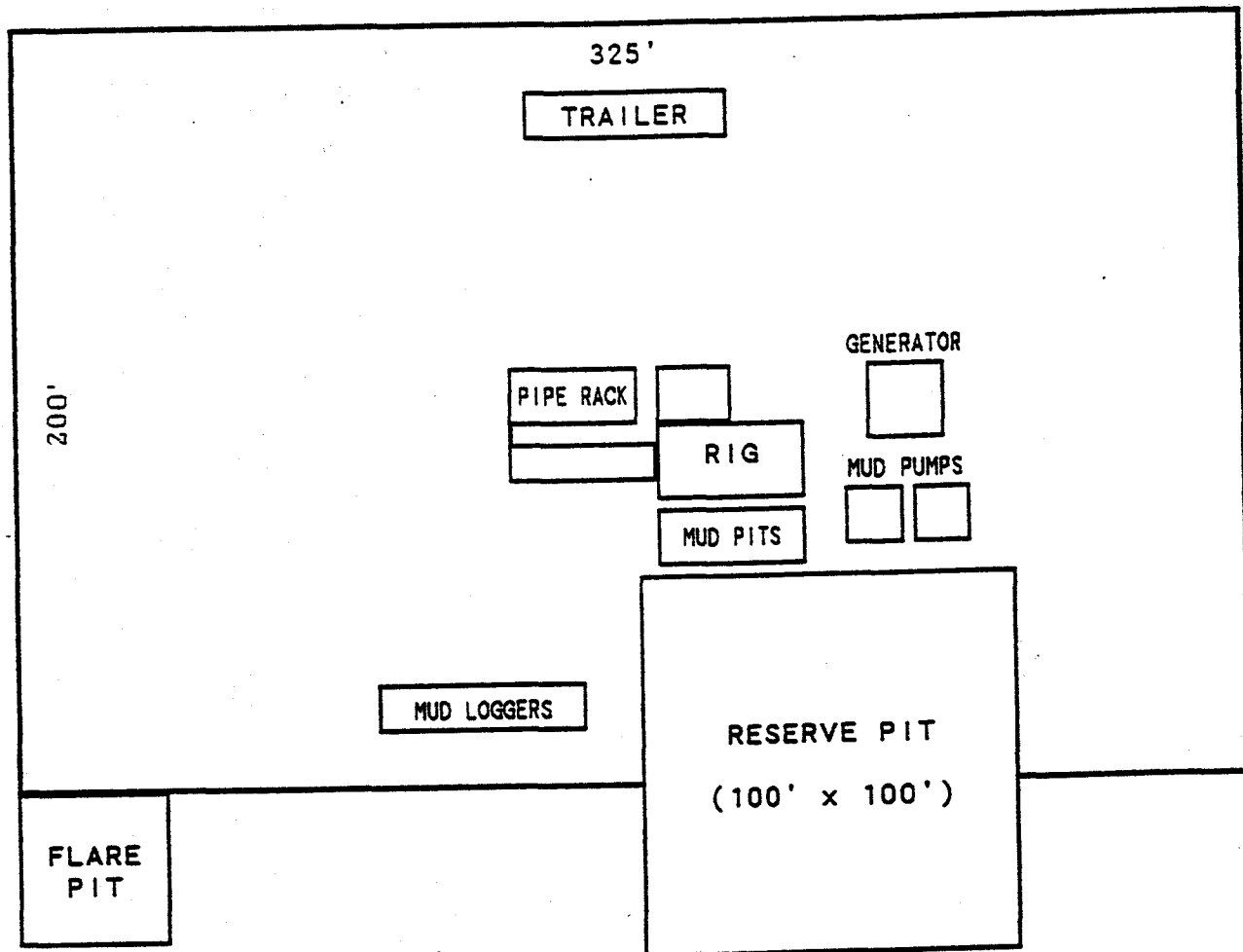
Clay Hill Canyon 32-D
Section 32-41S-25E' FNL &
Surface: 744' FNL & 378' FWL
San Juan County, Utah

Topo - Aneth Auadrangle - 7.5 Minute Series

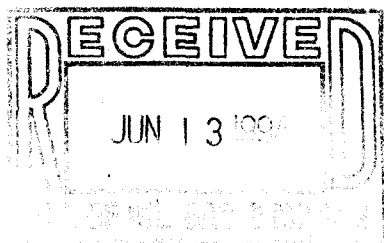
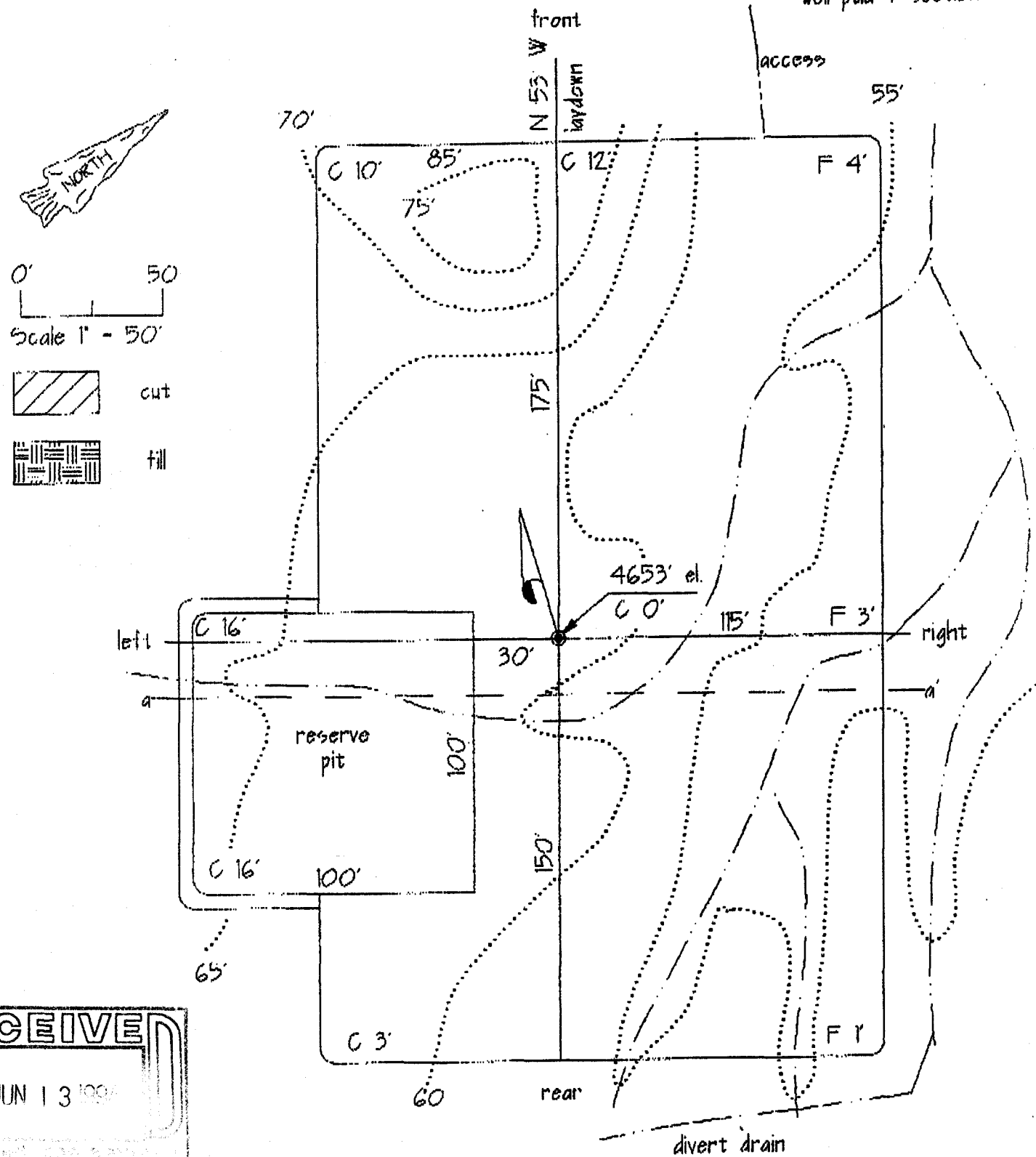
HARKEN SOUTHWEST CORPORATION

Clay Hill Canyon 32-D
Section 32-41S-25E
Surface: 467' FNL & 860' FWL
San Juan County, Utah

Attachment 4 Location Layout



Clay Hill Canyon 32-D
well pad & section



HARKEN SOUTHWEST CORPORATION
SEC.32-T41S-R25E

32-0
CLAY HILL CANYON
SAN JUAN COUNTY
UTAH.

PROPOSAL LISTING

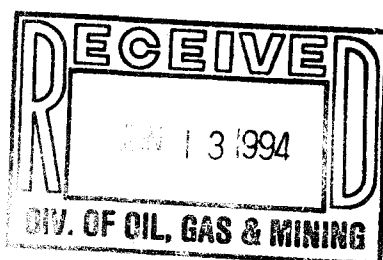
by
Baker Hughes Inteq

Your ref : INITIAL PLAN
Our ref : prop1342
License : CLAY HILL

Date printed : 6-May-94
Date created : 6-May-94
Last revised : 6-May-94

Field is centred on n37 40 0.000,w109 15 0
Structure is centred on 2668718.000,196481.000,999.00000,N

Slot location is n37 11 1.477,w109 12 15.942
Slot Grid coordinates are N 196481.000, E 2668718.000
Slot local coordinates are 0.00 N 0.00 E
Reference North is True North

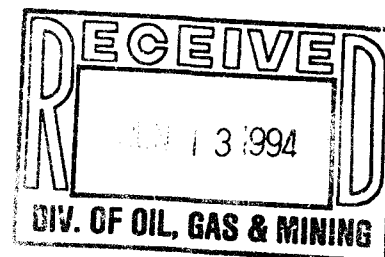


ATTACHMENT 5.

HARKEN SOUTHWEST CORPORATION
SEC.32-T41S-R25E,32-D
SAN JUAN COUNTY,UTAH.

PROPOSAL LISTING Page 1
Your ref : INITIAL PLAN
Last revised : 6-May-94

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert. Depth	R E C T A N G U L A R C O O R D I N A T E S			Dogleg Deg/100Ft	Vert Sect
0.00	0.00	56.03	0.00	0.00 N	0.00 E	0.00	0.00	
428.00	0.00	56.03	428.00	0.00 N	0.00 E	0.00	0.00	NAVAJO TOP
500.00	0.00	56.03	500.00	0.00 N	0.00 E	0.00	0.00	
1000.00	0.00	56.03	1000.00	0.00 N	0.00 E	0.00	0.00	
1068.00	0.00	56.03	1068.00	0.00 N	0.00 E	0.00	0.00	CHINLE TOP
1500.00	0.00	56.03	1500.00	0.00 N	0.00 E	0.00	0.00	
2000.00	0.00	56.03	2000.00	0.00 N	0.00 E	0.00	0.00	
2043.00	0.00	56.03	2043.00	0.00 N	0.00 E	0.00	0.00	DECHELLEY TOP
2143.00	0.00	56.03	2143.00	0.00 N	0.00 E	0.00	0.00	ORGAN ROCK TOP
2500.00	0.00	56.03	2500.00	0.00 N	0.00 E	0.00	0.00	
3000.00	0.00	56.03	3000.00	0.00 N	0.00 E	0.00	0.00	
3225.31	0.00	56.03	3225.31	0.00 N	0.00 E	0.00	0.00	
3243.00	0.35	56.03	3243.00	0.03 N	0.04 E	2.00	0.05	CEDAR MESA TOP
3325.31	2.00	56.03	3325.29	0.98 N	1.45 E	2.00	1.74	
3425.31	4.00	56.03	3425.14	3.90 N	5.79 E	2.00	6.98	
3525.31	6.00	56.03	3524.76	8.77 N	13.01 E	2.00	15.69	
3625.31	8.00	56.03	3624.01	15.58 N	23.12 E	2.00	27.88	
3725.31	10.00	56.03	3722.77	24.32 N	36.09 E	2.00	43.52	
3825.31	12.00	56.03	3820.93	34.98 N	51.92 E	2.00	62.60	
3925.31	14.00	56.03	3918.36	47.55 N	70.57 E	2.00	85.10	
4025.31	16.00	56.03	4014.95	62.01 N	92.03 E	2.00	110.98	
4125.31	18.00	56.03	4110.57	78.35 N	116.28 E	2.00	140.21	
4225.31	20.00	56.03	4205.12	96.54 N	143.28 E	2.00	172.77	
4353.94	20.00	56.03	4326.00	121.12 N	179.76 E	0.00	216.76	HERMOSA TOP
4500.00	20.00	56.03	4463.25	149.04 N	221.19 E	0.00	266.72	
5000.00	20.00	56.03	4933.10	244.60 N	363.01 E	0.00	437.73	
5228.70	20.00	56.03	5148.00	288.30 N	427.88 E	0.00	515.95	UPPER ISMAY TOP
5352.14	20.00	56.03	5264.00	311.90 N	462.90 E	0.00	558.17	LOWER ISMAY TOP
5452.17	20.00	56.03	5358.00	331.01 N	491.27 E	0.00	592.38	DESERT CREEK
5500.00	20.00	56.03	5402.94	340.15 N	504.83 E	0.00	608.74	
5622.44	20.00	56.03	5518.00	363.55 N	539.56 E	0.00	650.62	AKAH TOP
5675.65	20.00	56.03	5568.00	373.72 N	554.66 E	0.00	668.81	TOTAL DEPTH



All data is in feet unless otherwise stated
Coordinates from CLAY HILL CANYON and TVD from wellhead.
Vertical section is from wellhead on azimuth 56.03 degrees.
Declination is 12.32 degrees, Convergence is 1.41 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes Inteq

HARKEN SOUTHWEST CORPORATION
SEC.32-T41S-R25E,32-D
SAN JUAN COUNTY,UTAH.

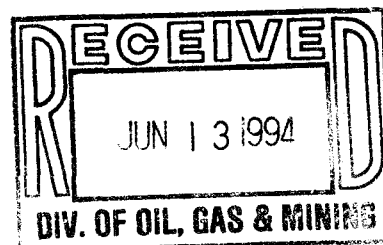
PROPOSAL LISTING Page 2
Your ref : INITIAL PLAN
Last revised : 6-May-94

Comments in wellpath
=====

MD	TVD	Rectangular Coords.		Comment
428.00	428.00	0.00 N	0.00 E	NAVAJO TOP
1068.00	1068.00	0.00 N	0.00 E	CHINLE TOP
2043.00	2043.00	0.00 N	0.00 E	DECHELLY TOP
2143.00	2143.00	0.00 N	0.00 E	ORGAN ROCK TOP
3243.00	3243.00	0.03 N	0.04 E	CEDAR MESA TOP
4353.94	4326.00	121.12 N	179.76 E	HERMOSA TOP
5228.70	5148.00	288.30 N	427.88 E	UPPER ISMAY TOP
5352.14	5264.00	311.90 N	462.90 E	LOWER ISMAY TOP
5452.17	5358.00	331.01 N	491.27 E	DESERT CREEK
5622.44	5518.00	363.55 N	539.56 E	AKAH TOP
5675.65	5568.00	373.72 N	554.66 E	TOTAL DEPTH

Targets associated with this wellpath
=====

Target name	Position	T.V.D.	Local rectangular coords.	Date revised
DESERT CRK. CLAY HIL	n37 11 4.750,w109 12 9.871,0	5358.00	331.01N 491.27E	6-May-94



All data is in feet unless otherwise stated
Coordinates from CLAY HILL CANYON and TVD from wellhead.
Bottom hole distance is 668.81 on azimuth 56.03 degrees from wellhead.
Vertical section is from wellhead on azimuth 56.03 degrees.
Declination is 12.32 degrees, Convergence is 1.41 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes Inteq

HARKEN SOUTHWEST CORPORATION

Structure : SEC.32-T41S-R25E

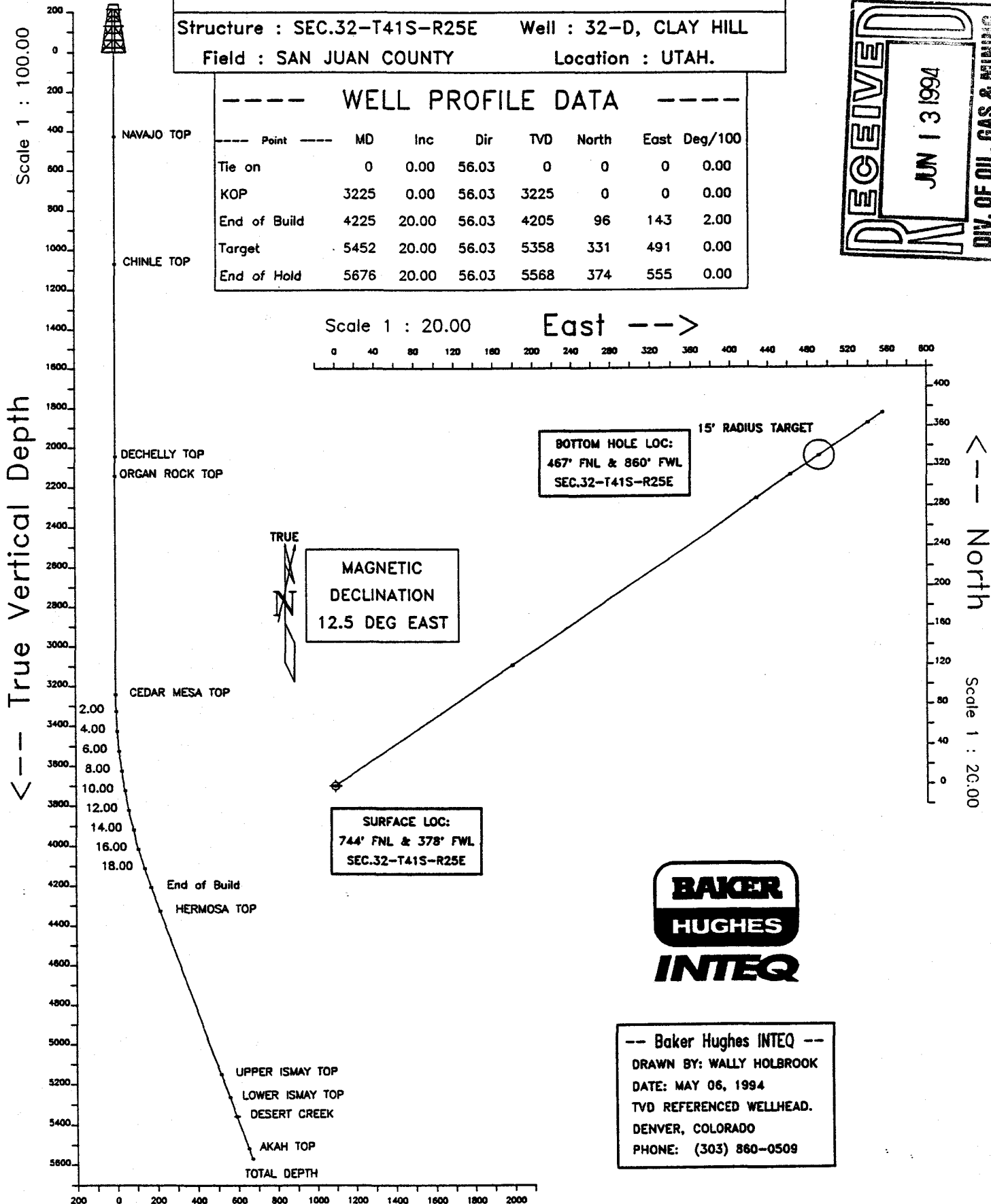
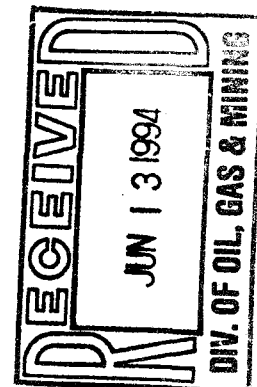
Well : 32-D, CLAY HILL

Field : SAN JUAN COUNTY

Location : UTAH.

WELL PROFILE DATA

Point	MD	Inc	Dir	TVD	North	East	Deg/100
Tie on	0	0.00	56.03	0	0	0	0.00
KOP	3225	0.00	56.03	3225	0	0	0.00
End of Build	4225	20.00	56.03	4205	96	143	2.00
Target	5452	20.00	56.03	5358	331	491	0.00
End of Hole	5676	20.00	56.03	5568	374	555	0.00



DHP

CULTURAL RESOURCES COMPLIANCE FORM
HISTORIC PRESERVATION DEPARTMENT
PO BOX 2898
WINDOW ROCK, ARIZONA 86515



ROUTING: COPIES TO
UT SHPO
 ACHP
X REAL PROPERTY MGT/330
 NNAD
X 4-CAS

NNHPD NO. HPD-93-390
OTHER PROJECT NO.
4-CAS 9316

PROJECT TITLE: Cultural Resource Survey of Chuska Energy Company's Clay Hill Canyon 32-D Well Pad Navajo Nation, San Juan County, Utah

LEAD AGENCY: BIA/NAO

SPONSOR: Chuska Energy Company, 3315 Bloomfield Hwy., Farmington, NM 87401

PROJECT DESCRIPTION: Clay Hill Canyon 32-D well pad

LAND STATUS: Tribal Trust

CHAPTER: Red Mesa

LOCATION: T41S, R25E, Section 32 (in part) San Juan County, UT

PROJECT ARCHAEOLOGIST: Carol DeFrancia

NAVAJO ANTIQUITIES PERMIT NO.: B9360-I

DATE INSPECTED: 7/9/93

DATE OF REPORT: 7/12/93

TOTAL ACREAGE INSPECTED: 10

METHOD OF INVESTIGATION: Class III pedestrian inventory with transects spaced 15 m apart.

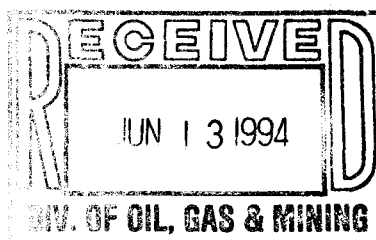
LIST OF CULTURAL RESOURCES FOUND: None

LIST OF ELIGIBLE PROPERTIES: None

LIST OF NON-ELIGIBLE PROPERTIES: None

LIST OF ARCHAEOLOGICAL RESOURCES: None

EFFECT/CONDITIONS OF COMPLIANCE: No properties were located. Pursuant to 36 CFR 800.4(d), a copy of this form and the report have been provided to the SHPO notifying them that no properties were found.



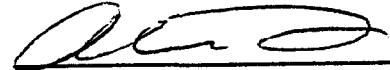
ATTACHMENT 6

In the event of a discovery ["discovery" means any previously unidentified or incorrectly identified cultural resources including but not limited to archaeological deposits, human remains, or locations reportedly associated with Native American religious/traditional beliefs or practices], all operations in the immediate vicinity of the discovery must cease and the Navajo Nation Historic Preservation Department must be notified 602-871-7132.

FORM PREPARED BY: Jane King
FINALIZED: ldavis8/24/93

Notification to
Proceed Recommended:
Conditions:

Yes X No
Yes No X


Alan Downer
Navajo Nation Historic
Preservation Officer

8/31/93
Date

Agency Approval:

Yes No


Area Director

9-2-93
Date

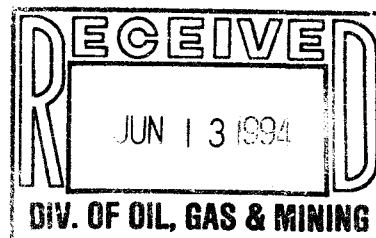
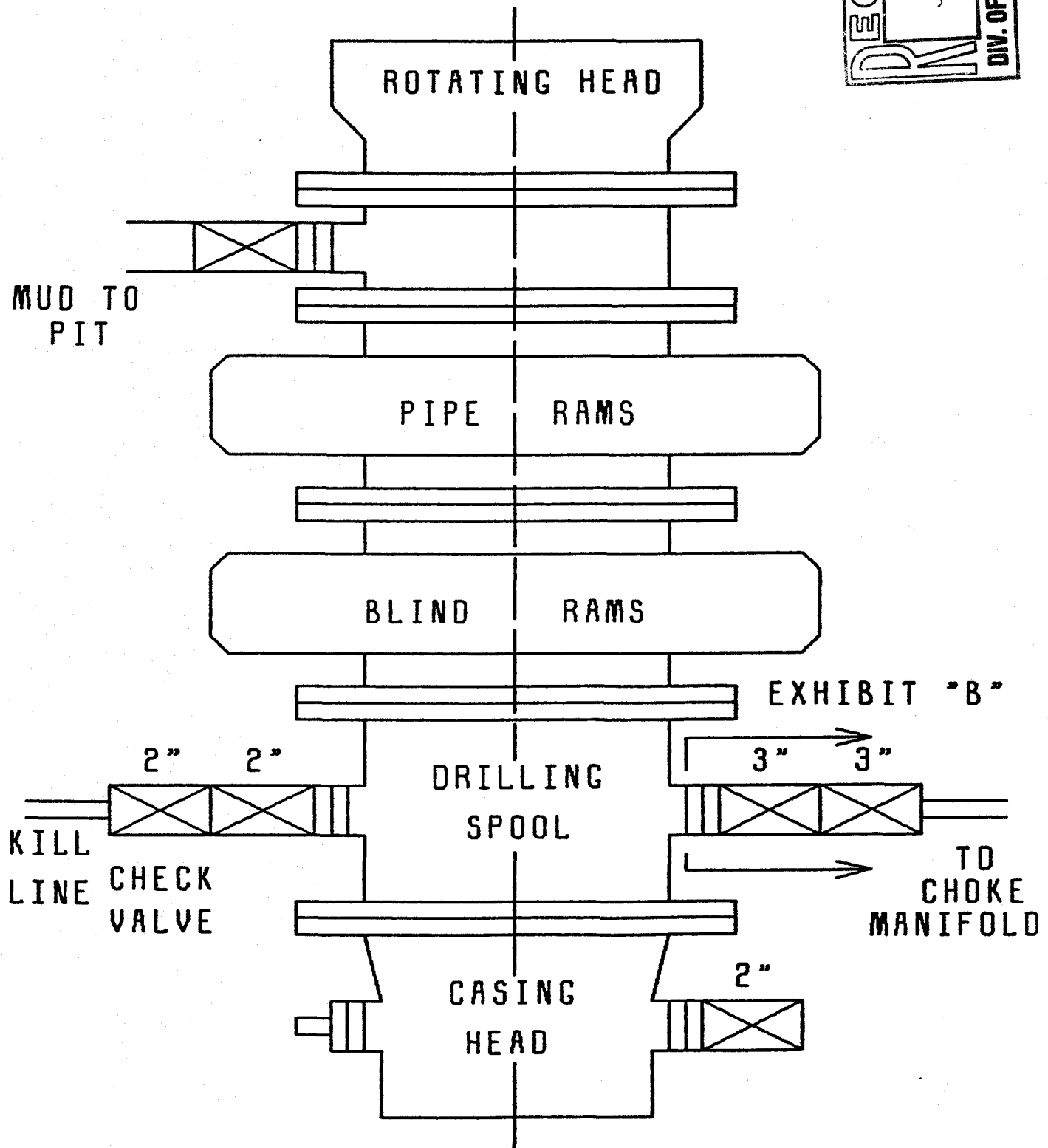
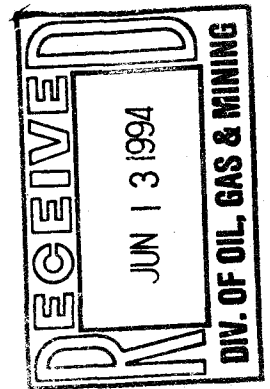


EXHIBIT "A"
BLOWOUT PREVENTER



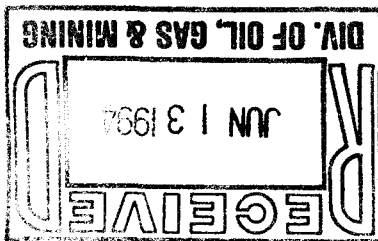
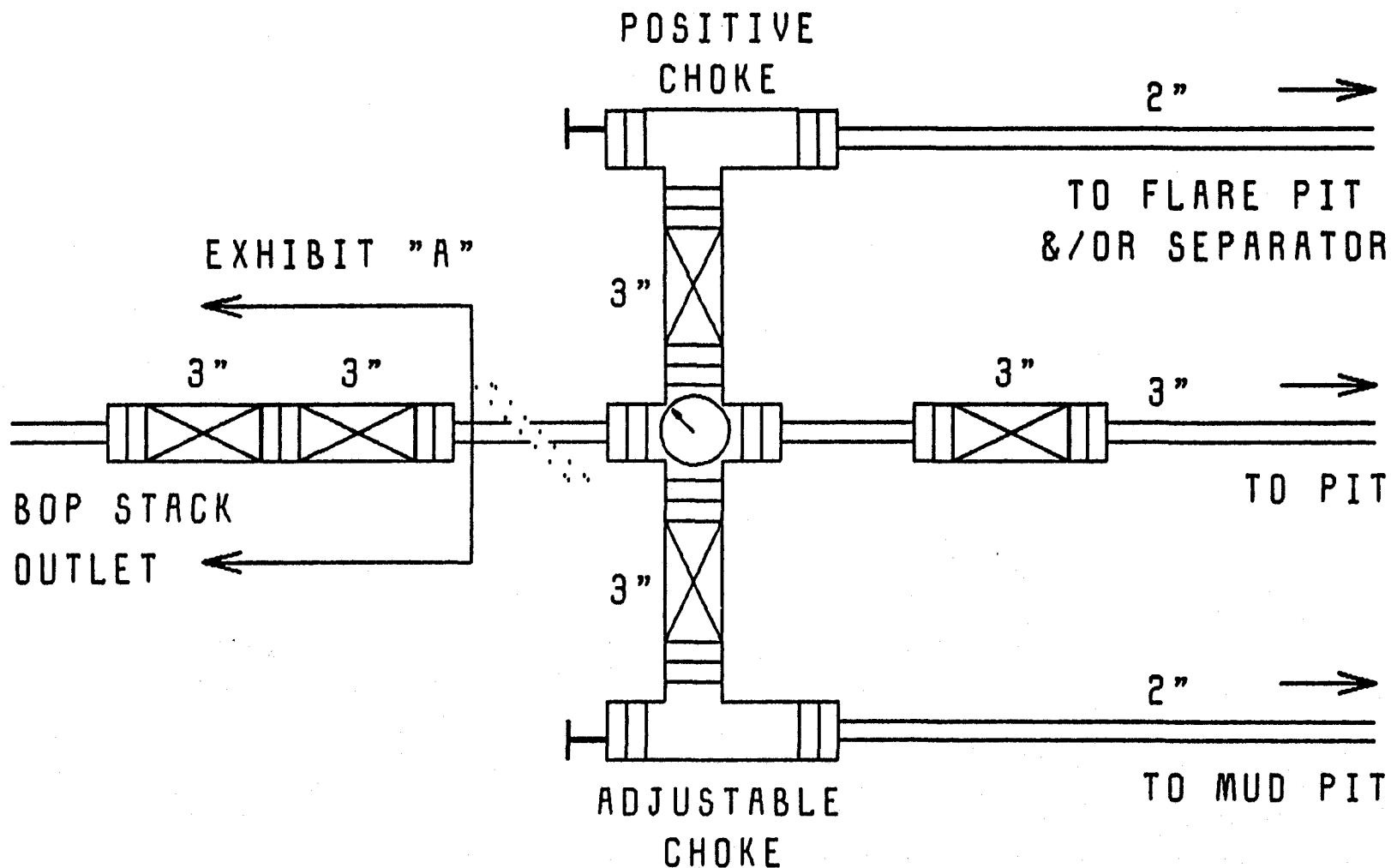


EXHIBIT "B" CHOKE MANIFOLD



WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 06/13/94

API NO. ASSIGNED: 43-037-31741

WELL NAME: CLAY HILL CANYON 32D
OPERATOR: HARKEN SOUTHWEST CORP (N9290)

PROPOSED LOCATION:

NWNW 32 - T41S - R25E
SURFACE: 0744-FNL-0378-FWL
BOTTOM: 0467-FNL-0860-FWL
SAN JUAN COUNTY
UNDESIGNATED FIELD (002)

LEASE TYPE: IND
LEASE NUMBER: 14-20-603-373

PROPOSED PRODUCING FORMATION: DSCR

INSPECT LOCATION BY: / /

TECH REVIEW	Initials	Date
Engineering		
Geology		
Surface		

RECEIVED AND/OR REVIEWED:

Y Plat
Y Bond: Federal ☒ State ☐ Fee ☐
(Number 8015)
N Potash (Y/N)
N Oil shale (Y/N)
N Water permit
(Number BY 3rd PARTY w/PERMIT)
N RDCC Review (Y/N)
(Date: _____)

LOCATION AND SITING:

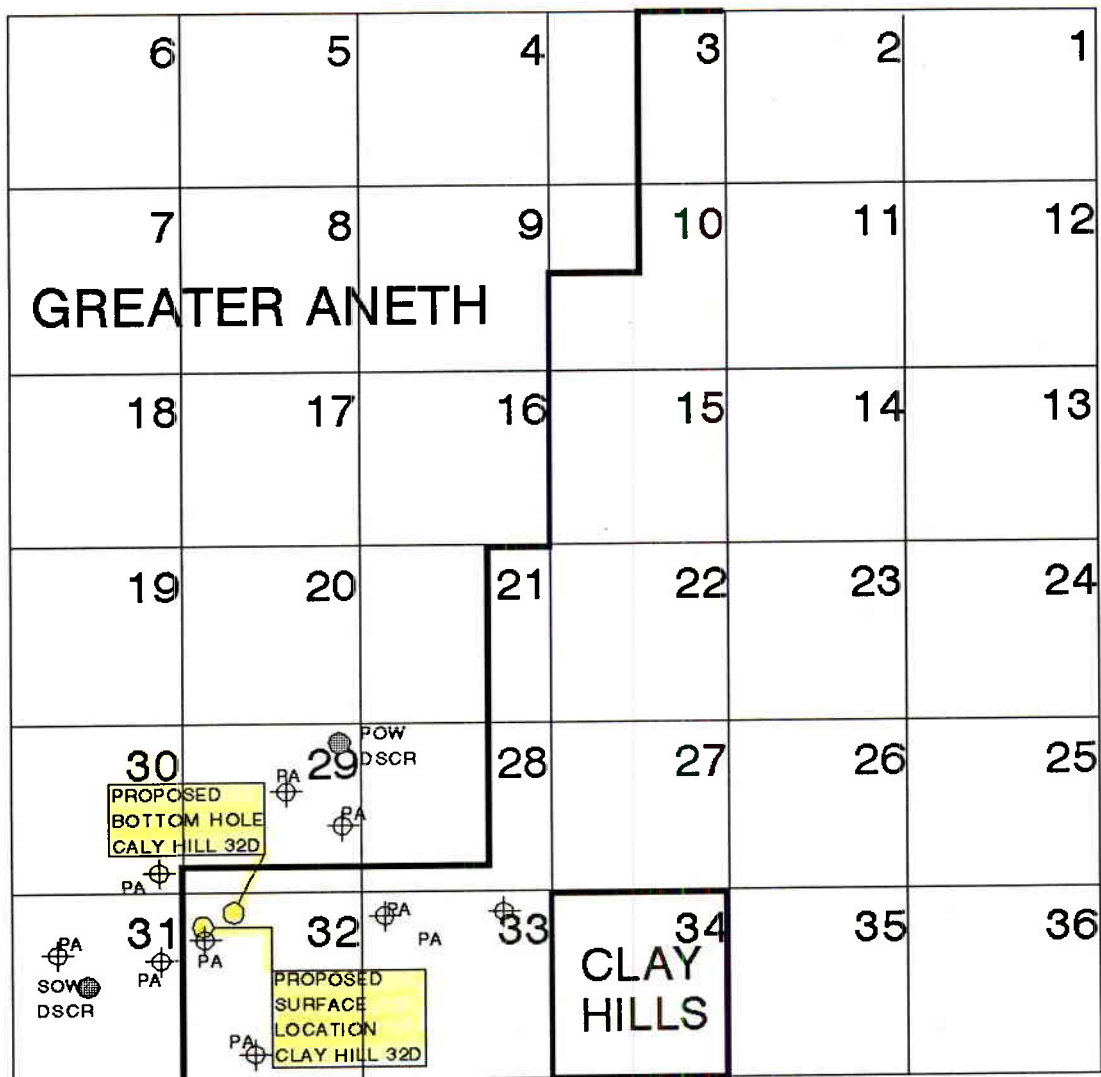
____ R649-2-3. Unit: _____
☒ R649-3-2. General.
____ R649-3-3. Exception.
____ Drilling Unit.
____ Board Cause no: _____
____ Date: _____

COMMENTS: _____

CONFIDENTIAL
PERIOD
EXPIRED
ON 6-30-96

STIPULATIONS:

1 Directional Drilling stipulation



T
41
S

R 25 E

SAN JUAN COUNTY

STATE OF UTAH

Operator: HARKEN SOUTHWEST CORP.	Well Name: CLAY HILL CANYON 32D
Project ID: 43-037-31741	Location: SEC. 32 - T41S - R25E

Design Parameters:

Mud weight (8.70 ppg) : 0.452 psi/ft
 Shut in surface pressure : 2252 psi
 Internal gradient (burst) : 0.055 psi/ft
 Annular gradient (burst) : 0.000 psi/ft
 Tensile load is determined using air weight
 Service rating is "Sweet"

Design Factors:

Collapse : 1.125
 Burst : 1.00
 8 Round : 1.80 (J)
 Buttress : 1.60 (J)
 Other : 1.50 (J)
 Body Yield : 1.50 (B)

Length (feet)		Size (in.)	Weight (lb/ft)	Grade	Joint	Depth (feet)	Depth (TVD)	Cost	
1	5,800	5.500	15.50	K-55	ST&C	5,800	5,680		
	Load (psi)	Collapse Strgth (psi)	S.F.	Burst Load (psi)	Min Int Strgth (psi)	Yield S.F.	Load (kips)	Tension Strgth (kips)	S.F.
1	2567	4040	1.574	2567	4810	1.87	89.90	222	2.47 J

Prepared by : FRM, Salt Lake City, UT
 Date : 08-24-1994
 Remarks :

DEVIATED HOLE

Minimum segment length for the 5,800 foot well is 1,000 feet.

SICP is based on the ideal gas law, a gas gravity of 0.69, and a mean gas temperature of 102°F (Surface 74°F, BHT 131°F & temp. gradient 1.000°/100 ft.)

Minimum drift diameter of this directional well string is 4.825 in. Other parameters include: TD (Meas): 5,800 ft. Departure @ TD: 725 ft.

KOP: 3,225 ft. BU α : 2.000°/100 ft.

@ 1st Slant α : 20.525° VD: 4,229 ft Departure: 182 ft MD: 4,251 ft

Bending load: 10.74 kips

The mud gradient and bottom hole pressures (for burst) are 0.452 psi/ft and 2,567 psi, respectively.

NOTE: The design factors used in this casing string design are as shown above. As a general guideline, Lone Star Steel recommends using minimum design factors of 1.125 - Collapse (with evacuated casing), 1.0 - Burst, 1.8 - 8 Round Tension, 1.6 - Buttress Tension, and 1.5 - Body Yield. Collapse strength under axial tension was calculated based on the Westcott, Dunlop and Kemler curve. Engineering responsibility for use of this design will be that of the purchaser. Costs for this design are based on a 1987 pricing model. (Version 1.06)



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

August 24, 1994

Harken Southwest Corporation
P.O. Box 612007
Dallas, Texas 75261

Re: Clay Hill Canyon 32D Well, Surface Location 744' FNL, 378' FWL, Bottom Hole Location 467' FNL, 860' FWL, NW NW, Sec. 32, T. 41 S., R. 25 E., San Juan County, Utah

Gentlemen:

Pursuant to Utah Admin. R. 649-3-2, Location and Siting of Wells and Utah Admin. R. 649-3-4, Permitting of Wells to be Drilled, Deepened or Plugged-Back, approval to horizontally drill the referenced well is hereby granted.

In addition, the following specific actions are necessary to fully comply with this approval:

1. In accordance with Utah Admin. R. 649-3-11, Directional Drilling, submittal of a complete angular deviation and directional survey report is required.
2. Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules.
3. Notification to the Division within 24 hours after drilling operations commence.
4. Submittal of Entity Action Form, Form 6, within five working days following commencement of drilling operations and whenever a change in operations or interests necessitates an entity status change.
5. Submittal of the Report of Water Encountered During Drilling, Form 7.
6. Prompt notification prior to commencing operations, if necessary, to plug and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801)538-5340, (Home) (801)476-8613, or K. Michael Hebertson, Reclamation Specialist, (Home) (801)269-9212.



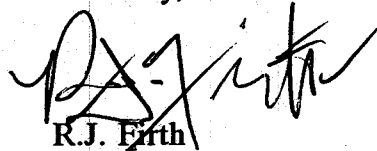
Page 2

Harken Southwest Corporation
Clay Hill Canyon 32D Well
August 24, 1994

7. Compliance with the requirements of Utah Admin. R. 649-3-20, Gas Flaring or Venting, if the well is completed for production.

This approval shall expire one year after date of issuance unless substantial and continuous operation is underway or a request for an extension is made prior to the approval expiration date. The API number assigned to this well is 43-037-31741.

Sincerely,



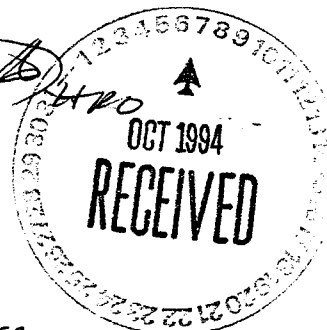
R.J. Firth
Associate Director

ldc

Enclosures

cc: San Juan County Assessor
Bureau of Land Management, Moab District Office
WO11

CULTURAL RESOURCES COMPLIANCE FORM
HISTORIC PRESERVATION DEPARTMENT
PO BOX 2898
WINDOW ROCK, ARIZONA 86515



ROUTING: COPIES TO
UT SHPO
X ACHP
X REAL PROPERTY MGT/330
NNAD
X 4-CAS

NNHPD NO. 94-561
OTHER PROJECT NO.
4-CAS 9420

PROJECT TITLE: Cultural Resource Survey of Harken Southwest Corporation's Clayhill Canyon 32-D Pipeline Route Navajo Nation, San Juan County, Utah

LEAD AGENCY: BIA/NAO

SPONSOR: Harken SW Corporation, 501 Airport Drive, Farmington, New Mexico 87401

PROJECT DESCRIPTION: Construction of a pipe line extending 3680 ft. from the location and ties to Harken SW Corporation's existing Hillside North lateral - Aneth Oil Field, San Juan County, Utah.

LAND STATUS: Tribal Trust

CHAPTER: Red Mesa

LOCATION: T41S, R25E, Section 30, 31, 32; San Juan County, Utah

PROJECT ARCHAEOLOGIST: Carol S. DeFrancia

NAVAJO ANTIQUITIES PERMIT NO.: B9360-I3

DATE INSPECTED: 8/11/94

DATE OF REPORT: 8/12/94

TOTAL ACREAGE INSPECTED: 12.6

METHOD OF INVESTIGATION: Class III pedestrian inventory with transects spaced 15m apart.

LIST OF CULTURAL RESOURCES FOUND: None

LIST OF ELIGIBLE PROPERTIES: None

LIST OF NON-ELIGIBLE PROPERTIES: None

LIST OF ARCHAEOLOGICAL RESOURCES: None

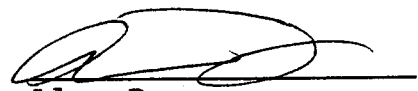
EFFECT/CONDITIONS OF COMPLIANCE: No properties were located. Pursuant to 36 CFR 800.4(d), a copy of this form and the report have been provided to the SHPO notifying them of compliance with CMY-19-88.

In the event of a discovery ["discovery" means any previously unidentified or incorrectly identified cultural resources including but not limited to archaeological deposits, human remains, or locations reportedly associated with Native American religious/traditional beliefs or practices], all operations in the immediate vicinity of the discovery must cease and the Navajo Nation Historic Preservation Department must be notified 602-871-7132.

FORM PREPARED BY: Iris Begaye
FINALIZED: 8/31/94


Notification to
Proceed Recommended:
Conditions:

Yes x No
Yes No x


Alan Downer
Navajo Nation Historic
Preservation Officer
9/29/94
Date

Agency Approval:

Yes ✓ No


Area Director
10-8-94
Date

CONFIDENTIAL

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: HARKEN SOUTHWEST

Well Name: CLAY HILL CANYON 32D

Api No. 43-037-31741

Section 32 Township 41S Range 25E County SAN JUAN

Drilling Contractor UNITED DRILLING

Rig # 3

SPUDDED: Date 2/1/95

Time 8:00 AM

How ROTARY

Drilling will commence

Reported by ROCHELL MONTGOMERY

Telephone # 1-214-753-6900

Date: 1/31/95 Signed: MKH

OPERATOR Harken Southwest Corporation
ADDRESS P. O. Box 612007
Dallas, TX 75261-0007

OPERATOR ACCT. NO. N 9290

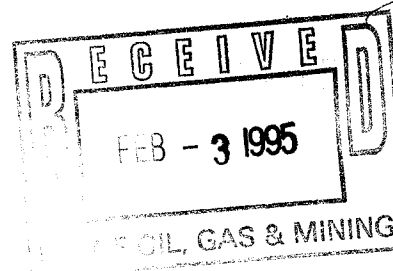
ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	11734	43-037-31741	Clay Hill Canyon 32D	NW	32	41S	25E	San Juan	02/01/95	
WELL 1 COMMENTS: <i>Entity added 2-6-95. Lee</i>											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)



Rachelle Montgomery
Signature
Production Admin 2/2/95
Title
Date
Phone No. 214, 753-6900

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Harken Southwest Corporation

3. Address and Telephone No.

P. O. Box 612007, Dallas, TX 75261 (214) 753-6900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Surface: NW/NW Section 32-41S-25E
744' FNL & 378' FWL

FORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31, 1993

5. Lease Designation and Serial No.

14-20-603-373 (BIA)

6. If Indian, Allottee or Tribe Name

Navajo

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

Clay Hill Canyon 32D

9. API Well No.

43-037-31741

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

San Juan County, UT

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent

☒ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☐ Other

Notice of Spud

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The subject well was spudded at 1400 hrs on February 1, 1995.

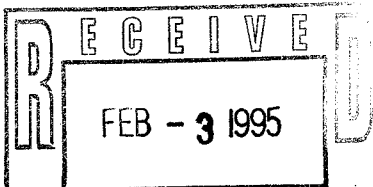
Casing string was set as follows:

Run 9 jts (413.95') 8-5/8", 24.0#, J-55, 8rd, ST&C, set @ 426'. RU Halliburton, cmt w/310 sx Class "B" w/2% CaCl₂, 1/4 #/sx flocele, yeild 1.18 ft³, 15.6 PPG, displ w/24.5 bbl H₂O, circ 15 bbls to surface. Plug down @ 4:25 am. 02/02/95. Operations @ report time: WOC

NOTE: BLM Inspector, Johnny Bennett, on location 2/1/95.

CONFIDENTIAL

CC: State of Utah



14. I hereby certify that the foregoing is true and correct

Signed

Richard Montgomery

DIV OF OIL, GAS & MINING

Title Production Administrator

Date 02/02/95

(This space for Federal or State office use)

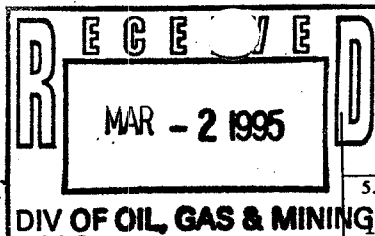
Approved by

Conditions of approval, if any:

Title

Date

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT



FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Harken Southwest Corporation

3. Address and Telephone No.

P. O. Box 612007, Dallas, Texas 75261 (214) 753-6900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

744' FNL & 378' FWL - NWNW Sec. 32-41S-25E

5. Lease Designation and Serial No.

4-20-603-373 (BIA)

6. If Indian, Allottee or Tribe Name

Navajo

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

Clay Hill Canyon 32D

9. API Well No.

43-037-31741

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

San Juan, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Completion

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Attached please find the completion procedures for the subject wellbore.

The well reached TD on 02/15/95. On 2/17-18/95 casing was set as follows: Ran 129 jts (5645.97') 5-1/2" 15.5#, K-55, 8 rd, LT&C csg. Set @ 5663', FC @ 5616', stage collar @ 4482'. RU Halliburton, circ. Cement 1st stage, pumped 20 bbl mud flush & 10 bbl wtr ahead, mixed 139 sx Class "G" cmt w/5# per sx gilsonite, 1/4# per sx Flocele, .3% Halad 304, yield 1.22 cf/sx, 15.4 ppg, displ w/30 bbl H₂O, 106 bbl mud, did not bump plug, float held, circ 6 bbl cmt to pit. Dropped bomb, opened stage tool @ 1250 psi, circ for 2nd stage. Cement 2nd stage, pumped 20 bbl mud flush and 10 bbl H₂O ahead, mix 625 sx Class "B" cmt w/5# per sx gilsonite, 1/4#/sx Flocele, yield 1.88 ft³/sx, 12.4 ppg followed by 100 sx Class "B" cement w/5# per sx gilsonite, 1/4#/sx Flocele, yield 1.18 cf/sx, 15.6 ppg, displ w/108 bbl H₂O, closed DVT w/2050 psi. Plug down 1:27 a.m., circ 5 bbl cmt to pit. PU BOP set slips, 2:30a.m.-8:30a.m. RD, clean mud pit. Released Rig @ 8:30 a.m. 02-18-95.

Should any questions arise, please contact the undersigned or Marshall Watson at the address/telephone number above.

***** Please consider this submittal **CONFIDENTIAL** *****

CC: State of Utah

14. I hereby certify that the foregoing is true and correct

Signed

Title Production Administrator

Date 3/01/95

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

Date _____

COMPLETION PROGNOSIS

CLAY HILL CANYON 32D
744' FNL & 378' FWL (SURF)
(SEE ATTACHED PLAT FOR BHL LOCATED 555', 60° FROM NORTH)
SEC 32 T41S R25E
SAN JUAN COUNTY, UTAH

Present Status: Waiting on completion

Elevation: 4652' (GL) Reference Elevation: 4665' (KB)
13' above GL

Total Depth/PBTD: 5665' (MD) PBTD: 5616' (MD)-Float collar,
5569' (TVD) 4482' (MD)-DV tool

Hole Size: 7-7/8"

Casing Program: 8 5/8 24# set @ 426', cmt to surface
5 1/2" 15.5# set @ 5663' cmt in two stages. DV tool @ 4482'
Stage 1: Cmt with 139 sx (170 cf) got 6 bbls above DV tool.
Did not bump plug, but float held.
Stage 2: Cmt w/725 sx (1293 cf)

Reference Log: Main Pass HLS Spectral Density/Dual Spared Neutron dated
2/14 /95 - ALL REFERENCED DEPTHS IN PROG ARE
MEASURED DEPTHS AND RELATIVE TO KB

Casing and Planned Tubing Detail

Depth	Size (in)	Wt.#/ft	Grade/ Thrd	Burst (psi)	Collapse (psi)	Yield M#	Drift (in)	Capacity (bbls/ft)
Not in hole	2-7/8	6.5	J-55 EUE	7260	7680	99	2.347	0.00579
surf- 5663	5-1/2	15.50	K-55 LTC	4810	4040	202	4.825	0.0232

Completion Prognosis
Clay Hill Canyon 32D
Page 2

Proposed Operations: Complete as new Desert Creek Producer and obtain pressure/rate data from all zones simultaneously (commingled)

1. Hold safety meeting and review procedures w/rig crew.
2. MIRU completion rig. Rig to include reversing and circulation system.
3. NU BOP. Pressure test to 1,500 psig using rig pump.
4. PU 4-7/8" bit, 4 x 3-1/2" drill collars and 2-7/8" tubing. RIH to DV collar at +/-4482' MD(KB).
5. Close tubing rams and pressure test casing above DV collar to 1,500 psig for 15 minutes.
6. Drill out DV collar using fresh water as circulating fluid.
7. Continue RIH and clean out to float collar at +/-5616' (MD)KB.
8. Close tubing rams and pressure test casing to 1,500 psig for 15 minutes.
9. Circulate hole clean with fresh water. Continue until returns are free of cement.
10. POH with completion string.
11. PU 5-1/2" casing scraper. RIH with 4-7/8" bit, scraper, 4 x 3-1/2 drill collars and 2-7/8" tubing to float collar at +/- 5616' KB. Circulate hole clean and POH with completion string.
12. LD bit, casing scraper, and collars.
13. RU HLS wireline and run CBL/VDL/CCL/GR from PBTD to +/-5200' MD (KB) (approximately 100' above the Upper Ismay) with 0 psig on CSG. Correlate bond log to referenced log (HLS/SDL/DSN/GR Main Pass dated 2/14/95). Pressure up to 1000 psi on CSG. GIH to PBTD and run CBL/VDL/CCL/GR to surface. Fax CBL/CCL/GR log to Dallas office and wait on approval prior to proceeding.

NOTE: All flow from the well will be into temporary frac tanks. Under no circumstances will fluids flowing from the well be produced into the reserve pit.

Completion Prognosis
Clay Hill Canyon 32D
Page 3

14. RU to perforate. Note that GR/CCL is on depth with referenced log (HLS Main Pass SDL/DSN/GR dated 2/14/95). Using 4" hollow carrier casing gun, perforate at 4 SPF w/90 degree phasing/0.45" diameter (perforations) the following intervals from bottom to top:

ZONE	INTERVAL	LENGTH	NO. OF SHOTS	FEET OF POROSITY	ACID VOLUME @ 150 G/FT
4	5491-5494	3'	13	3	450
4	5497-5503	6'	25	5	750
3	5514-5520	6'	25	6	900
2	5528-5531	3'	13	2	300
1	5537-5541	4'	17	4	600
1	5544-5549	5'	25	5	750
TOTALS		27	118	25	3750

NOTE: Report fluid level drop to Dallas office for orders to RU and swab for flow test (see step 23).

15. PU tandem Microsmart Electronic Pressure Gauge bombs (1.25" OD) housed in 2-7/8" x 14' perforated bull plugged sub, collar locator, PPI packer (1.8" ID) with 10 foot spacing between elements, 2-7/8" x 4' PU sub, 1 jt. 2-7/8" tbg, 2-7/8" SN (2.205 ID) and RIH on 2-7/8" tubing to 5300' MD (KB) and set packer and pressure test elements to 1,500 psig. Unseat packer and GIH to 1st setting shown in Step 16.

Completion Prognosis
Clay Hill Canyon 32D
Page 4

16. Spot heated 15% HCl NEA to bottom of tubing. A total of 3750 gal (150 gal/ft) of acid will be used for the Matrix acid job as follows at pump rates and pressures of 1/2 BPM and approximately 2700 psi: (Max pressure on break down 3500 psi).

SETTING DEPTH, MD (KB)	VOL ACID, GAL.
5543-5553	750
5532-5542	600
5524-5534	300
5512-5522	900
5496-5506	750
5485-5595	450
	3750 GALS

Tbg. capacity to 5595 = 32.4 BBLS (1361 gal.)

17. After acid set packer and pull standing valve. Swab well back until cleaned up and flow test through test separator to obtain fluid and gas flow rates and pressures. Report data to Dallas office and will advise to proceed. Report data to Dallas, will advise on SI.
18. After flow test is completed, TOH, LD packer, and electronic gauges.
19. If well is not capable of sustained flow go to Step 21. If well is capable of flowing, PU a 2-7/8" x 31' tail joint, 5-1/2 x 2-7/8 x 3 Model 'R' Completion packer, 2-7/8 SN and RIH on 2-7/8 tbg to 5400' KB. Circulate packer fluid containing corrosion inhibitor down back side to packer and set.
20. Swab well to unload allow to clean up and flow test. Go to step 22.
21. A. If well is unable to flow, RIH with 2-7/8 x 31 open ended tail joint and 2-7/8 SN on 2-7/8 tbg to PBSD at 5616' MD (KB). PU 2 ft off bottom and swab until well is cleaned up.
- B. Hot oil down tbg with 30 bbl lease oil plus 3 gallons paraffin inhibitor. RIH with tear drop SV on sand line and pressure test tbg to 1000 psig. If okay, make minimum of 4 swab runs to clean up rat hole. POOH standing back tbg.

Completion Prognosis
Clay Hill Canyon 32D
Page 5

C. RIH with BHA as follows:

2-7/8 x 31 tail joint perforated 5' on bottom
2-7/8 collar with 2-3/16" holes
2-7/8 SN
7 jts 2-7/8 tbg
5-1/2 x 2-7/8 TAC
171 jts 2-7/8 tbg

D. Land EOT at +/-5603' MD (KB) and pump 15 bbl lease oil down back side.

E. Set TAC in 13,500 psi tension, ND BOP, and NU WHD.

F. Complete well for final pump installation.

Pump Installation

Production Material Requirements:

185 jts 2-7/8 tbg
5-1/2 x 2-7/8 TAC w/35K shear pin
2-7/8 collar w/2-3/16" holes
2-7/8 SN
2-7/8 tail joint perforated 5' on bottom

*Following is estimated based on 100 BPDTF

2-1/2 x 1-1/4 x 15 RHAC
2075'-83: 7/8 x 2-7/8 x 6 per scraped Type 78 Rods
3500'-140: 3/4 x 2-7/8 x 6 per scraped Type 78 Rods
1-1/2 x 26 SM polish rod
5 gallon can of corrosion inhibitor
set of torque cards

G. RU rod table and rod tongs. Calibrate makeup torque on tongs using torque cards.

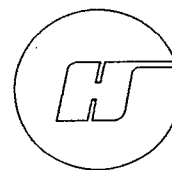
Completion Prognosis
Clay Hill Canyon 32D
Page 6

- H. RIH w/following pump and three taper scraped rod string using corrosion inhibitor on pins and boxes:
- 1 - 2-1/2 x 1-1/4 x 15 RHAC
 - 1- 3/4 x 2 pony rod
 - 16 - 400' 7/8 x 2-7/8-6 per x 25 rods
 - 139- 3500' 3/4 x 2-7/8-6 per x 25 rods
 - 66 - 1675' 7/8 x 2-7/8-6 per x 25 rods
 - 1 - 1-1/2 x 26 SM polish rod
- I. Space out pump and hang off on C160-200-74 pumping unit, SL=74", SPM=to be determined (probably start at 5SPM).
- J. Load tbg with 32 bbl oil and pressure test tbg to 400 psig. Check pump action. Release rig.
22. Production test well for 5-10 days through test facilities to determine proper sizing of facilities.
23. Complete well facility installation and pipeline.

NOTE:

- (1) Wellsite Engineer to account for and report on Daily Completion Report all fluids injected into and removed from wellbore during work over operations.
- (2) Dallas office will submit squeeze procedures if required during the completion of said well.
- (3) Swabbing operations will only be conducted during daylight hours, or if sufficient rig lighting is available to swab in complete safety.
- (4) Flow well to cleanup into temporary tanks then produce through test separator into temporary tanks to determine gas rate. Timings for flow periods will be advised by Dallas office.

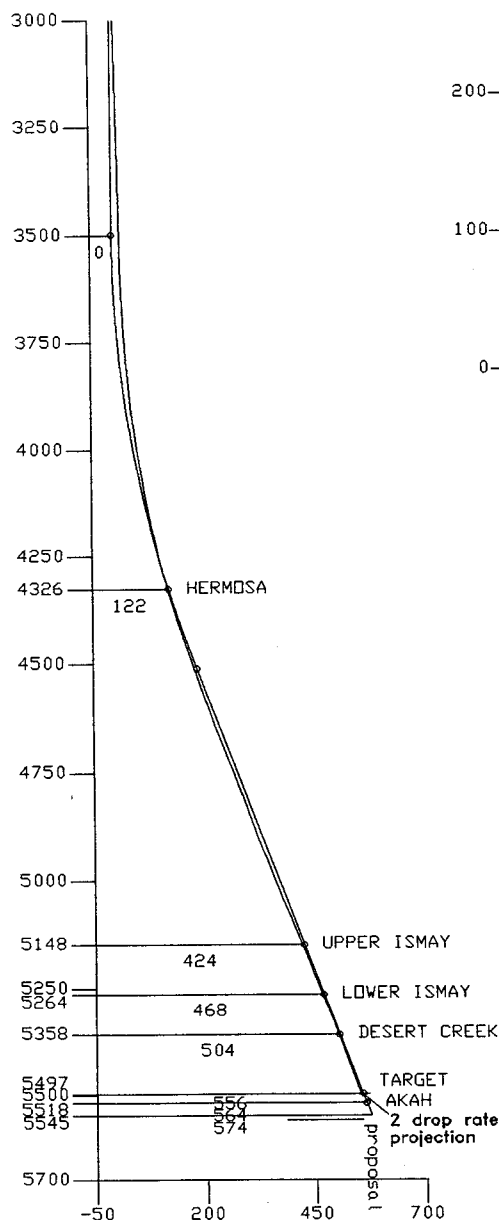
Harkens Southwest Corp.
 CLAY HILL CANYON 32-D
 SAN JAUN CO., UT
 Sec.32-T41S-R25E
 SURVEY



HALLIBURTON

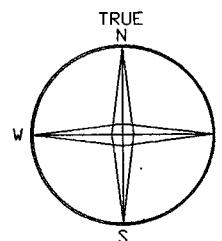
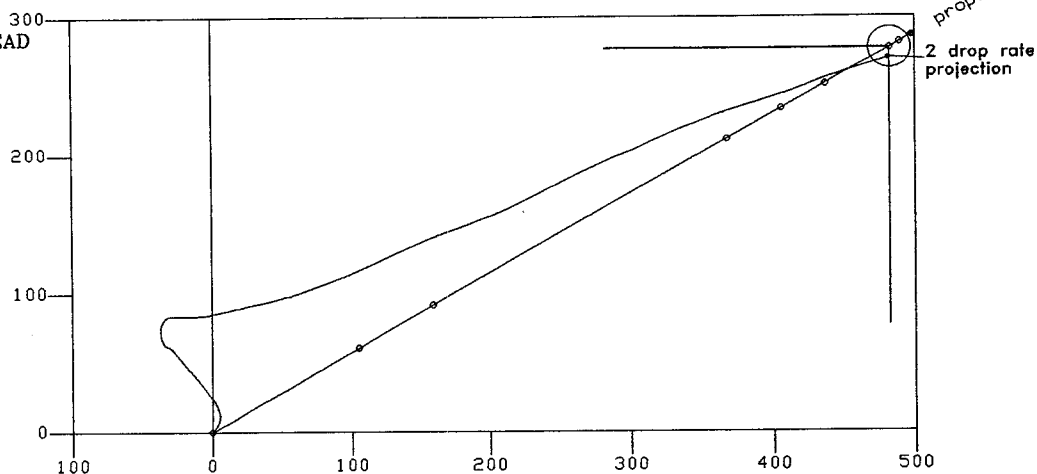
2/12/95 10:20 pm

VERTICAL VIEW
 SCALE 250 ft. / DIVISION
 TVD REF: WELLHEAD
 VERTICAL SECTION REF: WELLHEAD



VERTICAL SECTION PLANE: 60.11

HORIZONTAL VIEW
 SCALE 100 ft. / DIVISION
 SURVEY REF: WELLHEAD



Halliburton Drilling Systems

Survey Report

Page 1
Job No: 32-D
Date: 2/12/95
Time: 9:44 pm
Wellpath ID: SURVEY
Date Created: 2/6/95
Last Revision: 2/12/95

Calculated using the Minimum Curvature Method
Computed using WIN-CADDS REV2.1.A
Vertical Section Plane: 60.11 deg.

Survey Reference: WELLHEAD
Vertical Section Reference: WELLHEAD
Closure Reference: WELLHEAD
TVD Reference: WELLHEAD

Harkens Southwest Corp.
CLAY HILL CANYON 32-D
SAN JAUN CO., UT
Sec.32-T41S-R25E
SURVEY

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Course Length (ft)	TVD (ft)	Vertical Section (ft)	T O T A L Rectangular Offsets (ft) (ft)		Closure Dist. (ft)	Dir. (deg.)	DLS (dg/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00@	0.00	0.00
First MWD surv. below csng.										
466.00	1.60	32.80	466.00	465.94	5.78	5.47 N	3.52 E	6.51@	32.80	0.34
676.00	1.50	4.00	210.00	675.87	9.92	10.68 N	5.30 E	11.92@	26.42	0.37
986.00	2.80	332.60	310.00	985.65	12.51	21.45 N	2.10 E	21.55@	5.60	0.55
1297.00	3.50	318.80	311.00	1296.18	10.98	35.33 N	7.65W	36.15@	347.79	0.33
1608.00	2.80	319.40	311.00	1606.71	7.70	48.24 N	18.84W	51.79@	338.67	0.23
1919.00	1.80	321.70	311.00	1917.46	5.58	57.84 N	26.81W	63.76@	335.13	0.32
2230.00	0.80	278.70	311.00	2228.38	3.17	62.01 N	31.99W	69.77@	332.71	0.43
2541.00	1.40	338.90	311.00	2539.33	2.05	65.88 N	35.50W	74.84@	331.68	0.39
2821.00	1.50	357.60	280.00	2819.24	4.27	72.73 N	36.89W	81.55@	333.11	0.17
3132.00	1.50	30.80	311.00	3130.14	9.69	80.30 N	34.97W	87.58@	336.46	0.28
3443.00	1.10	87.20	311.00	3441.07	15.90	83.94 N	29.91W	89.11@	340.39	0.41
3474.00	1.10	89.30	31.00	3472.07	16.43	83.96 N	29.31W	88.93@	340.75	0.13
3513.00	1.10	93.50	39.00	3511.06	17.07	83.94 N	28.56W	88.66@	341.21	0.21
BHA #1: 1.25° mtr. [in @ 3532' MD]										
3576.00	1.60	95.60	63.00	3574.04	18.29	83.81 N	27.08W	88.08@	342.09	0.80
3606.00	2.20	89.40	30.00	3604.02	19.13	83.78 N	26.09W	87.75@	342.70	2.11
3639.00	2.90	89.40	33.00	3636.99	20.41	83.80 N	24.62W	87.34@	343.62	2.12
3670.00	3.50	87.40	31.00	3667.94	21.93	83.85 N	22.89W	86.92@	344.73	1.97
BHA #2: 1.25° mtr. [in @ 3681' MD]										
3700.00	3.70	88.80	30.00	3697.88	23.60	83.91 N	21.01W	86.50@	345.94	0.73
3731.00	3.90	89.80	31.00	3728.82	25.39	83.93 N	18.96W	86.05@	347.27	0.68
3761.00	4.40	92.30	30.00	3758.74	27.25	83.89 N	16.79W	85.55@	348.68	1.77
3792.00	4.80	91.60	31.00	3789.64	29.36	83.81 N	14.30W	85.02@	350.32	1.30
3823.00	5.60	86.40	31.00	3820.51	31.83	83.87 N	11.50W	84.65@	352.19	2.99
3854.00	6.30	85.50	31.00	3851.34	34.72	84.09 N	8.29W	84.50@	354.37	2.28

Halliburton Drilling Systems

Survey Report

Page 2

Date: 2/12/95

Wellpath ID: SURVEY

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Course Length (ft)	TVD (ft)	Vertical Section (ft)	T O T A L Rectangular Offsets (ft) (ft)		Closure Dist. (ft)	Dir. (deg.)	DLS (dg/100ft)
3886.00	7.10	81.80	32.00	3883.12	38.14	84.51 N	4.58W	84.64@	356.90	2.84
3917.00	7.50	79.40	31.00	3913.87	41.83	85.16 N	0.70W	85.16@	359.53	1.62
3948.00	8.00	78.20	31.00	3944.59	45.79	85.97 N	3.40 E	86.04@	2.27	1.70
3979.00	8.60	76.80	31.00	3975.26	50.06	86.94 N	7.77 E	87.29@	5.11	2.04
4011.00	9.00	76.70	32.00	4006.89	54.75	88.06 N	12.54 E	88.95@	8.10	1.25
4041.00	9.50	76.50	30.00	4036.50	59.38	89.18 N	17.23 E	90.83@	10.93	1.67
4072.00	9.90	78.50	31.00	4067.05	64.36	90.31 N	22.33 E	93.03@	13.89	1.69
4103.00	10.50	77.60	31.00	4097.56	69.58	91.45 N	27.70 E	95.55@	16.85	2.00
4133.00	11.10	77.30	30.00	4127.03	74.95	92.67 N	33.18 E	98.43@	19.70	2.01
4165.00	11.60	77.00	32.00	4158.41	80.97	94.07 N	39.32 E	101.96@	22.69	1.57
4196.00	12.30	77.00	31.00	4188.73	87.11	95.52 N	45.58 E	105.83@	25.51	2.26
4227.00	12.70	75.80	31.00	4219.00	93.55	97.09 N	52.10 E	110.19@	28.22	1.54
4258.00	13.70	73.60	31.00	4249.18	100.40	98.97 N	58.92 E	115.18@	30.77	3.61
4290.00	14.50	71.30	32.00	4280.22	108.02	101.32 N	66.35 E	121.11@	33.22	3.05
4320.00	15.20	69.80	30.00	4309.21	115.58	103.88 N	73.60 E	127.31@	35.32	2.66
4351.00	16.00	69.00	31.00	4339.07	123.81	106.82 N	81.40 E	134.30@	37.31	2.67
4382.00	16.60	68.50	31.00	4368.83	132.41	109.97 N	89.51 E	141.80@	39.14	1.99
4414.00	17.10	67.70	32.00	4399.45	141.59	113.43 N	98.12 E	149.98@	40.86	1.72
4445.00	17.60	67.20	31.00	4429.04	150.76	116.98 N	106.66 E	158.30@	42.36	1.68
4476.00	18.30	66.10	31.00	4458.53	160.25	120.77 N	115.43 E	167.06@	43.70	2.51
4507.00	18.60	65.80	31.00	4487.94	170.01	124.76 N	124.38 E	176.18@	44.91	1.02
4539.00	18.90	65.60	32.00	4518.24	180.25	129.00 N	133.76 E	185.83@	46.04	0.96
4570.00	19.40	66.50	31.00	4547.53	190.37	133.12 N	143.05 E	195.41@	47.06	1.87
4601.00	19.70	67.10	31.00	4576.74	200.67	137.21 N	152.59 E	205.21@	48.04	1.16
4632.00	20.00	69.00	31.00	4605.90	211.09	141.14 N	162.35 E	215.13@	49.00	2.30
4664.00	20.60	70.20	32.00	4635.91	222.04	145.01 N	172.76 E	225.55@	49.99	2.28
4694.00	20.90	69.50	30.00	4663.96	232.52	148.67 N	182.73 E	235.57@	50.87	1.30
4725.00	21.30	68.60	31.00	4692.88	243.54	152.66 N	193.16 E	246.20@	51.68	1.66
4756.00	21.60	66.50	31.00	4721.74	254.78	156.99 N	203.63 E	257.12@	52.37	2.66
4787.00	21.10	64.70	31.00	4750.61	266.01	161.65 N	213.91 E	268.12@	52.92	2.66
4818.00	20.40	63.50	31.00	4779.60	276.97	166.45 N	223.79 E	278.90@	53.36	2.64
4849.00	19.70	63.10	31.00	4808.72	287.58	171.22 N	233.28 E	289.38@	53.72	2.30
4880.00	20.00	63.10	31.00	4837.88	298.09	175.99 N	242.67 E	299.77@	54.05	0.97
4911.00	20.30	63.30	31.00	4866.98	308.76	180.80 N	252.20 E	310.31@	54.36	0.99
4942.00	20.80	64.10	31.00	4896.01	319.62	185.62 N	261.96 E	321.06@	54.68	1.85
4973.00	21.00	64.70	31.00	4924.97	330.64	190.40 N	271.93 E	331.96@	55.00	0.94
5004.00	21.10	66.00	31.00	4953.90	341.73	195.04 N	282.05 E	342.92@	55.34	1.54
5035.00	21.10	66.40	31.00	4982.82	352.83	199.55 N	292.26 E	353.89@	55.68	0.46
5066.00	21.20	66.90	31.00	5011.73	363.94	203.98 N	302.53 E	364.87@	56.01	0.67

Halliburton Drilling Systems

Survey Report

Page 3
Date: 2/12/95
Wellpath ID: SURVEY

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Course Length (ft)	TVD (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)		Closure Dist. (ft)	Dir. (deg.)	DLS (dg/100ft)
5097.00	22.00	65.10	31.00	5040.56	375.29	208.62 N	312.95 E	376.12@	56.31	3.35
5129.00	22.60	65.10	32.00	5070.16	387.39	213.74 N	323.97 E	388.12@	56.59	1.88
5161.00	22.50	66.90	32.00	5099.72	399.59	218.73 N	335.18 E	400.23@	56.87	2.18
5192.00	22.60	68.40	31.00	5128.35	411.38	223.25 N	346.17 E	411.91@	57.18	1.88
5223.00	22.70	70.30	31.00	5156.96	423.16	227.46 N	357.34 E	423.59@	57.52	2.38
5253.00	22.30	70.90	30.00	5184.67	434.45	231.27 N	368.17 E	434.78@	57.86	1.54
5284.00	22.10	71.70	31.00	5213.38	445.94	235.03 N	379.26 E	446.18@	58.21	1.17
5316.00	22.10	72.60	32.00	5243.02	457.71	238.72 N	390.72 E	457.88@	58.58	1.06
5347.00	22.30	72.50	31.00	5271.73	469.15	242.23 N	401.90 E	469.25@	58.92	0.66
5379.00	21.80	70.60	32.00	5301.39	480.92	246.03 N	413.29 E	480.98@	59.24	2.72
5410.00	21.00	67.70	31.00	5330.25	492.09	250.05 N	423.86 E	492.12@	59.46	4.28
Final survey:										
5445.00	21.00	69.10	35.00	5362.93	504.50	254.66 N	435.52 E	504.51@	59.68	1.43
Proj'n to TD @ 2.0° drop rate as per DRLG ENG. rq										
5588.00	18.10	74.80	143.00	5497.68	551.31	269.63 N	480.91 E	551.34@	60.72	2.43

Clay Hill Canyon 32 D

SOL/DSN/GR Main Pass

2/14/95

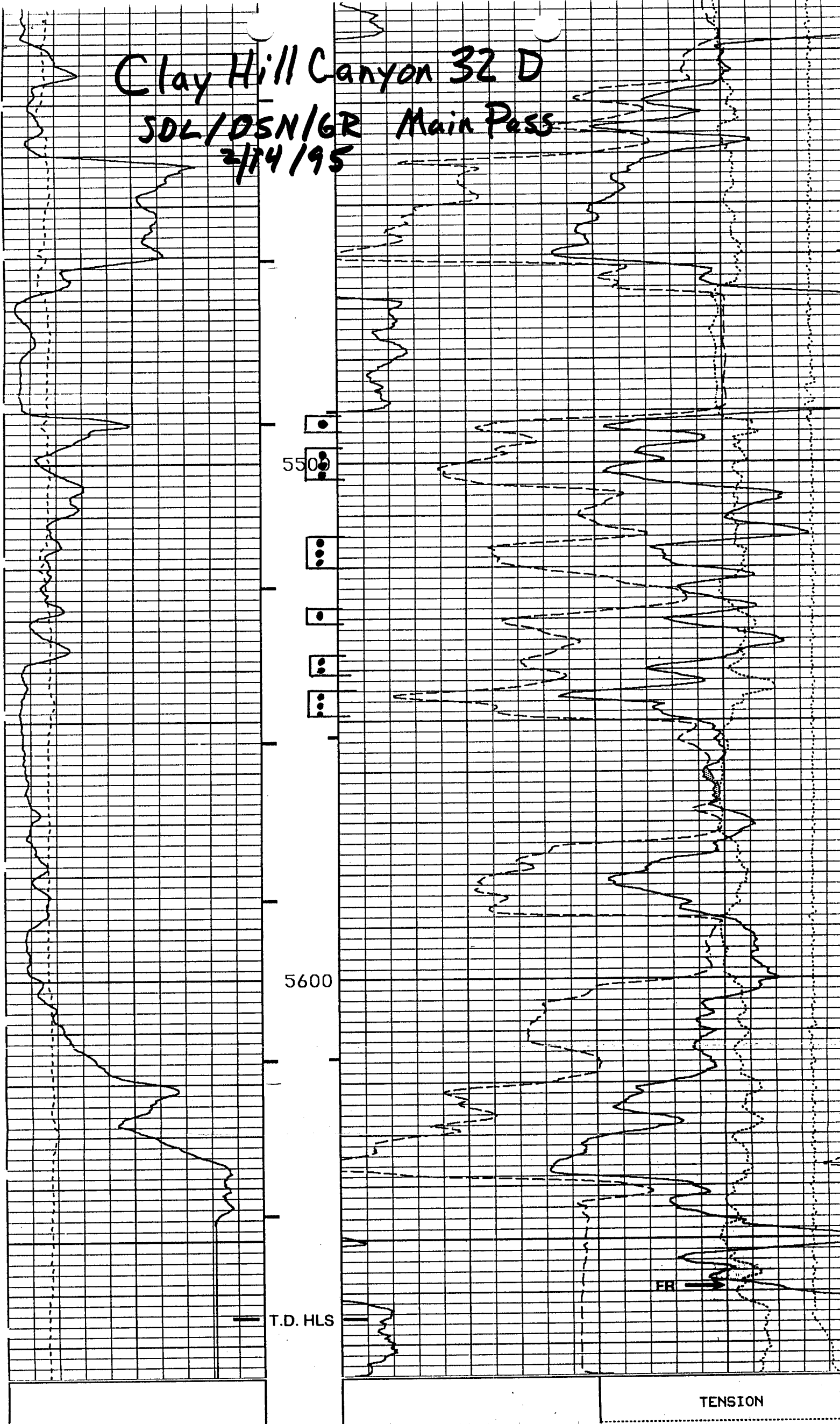
5500

5600

T.D. HLS

FR

TENSION



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONFIDENTIAL

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

HARKEN SOUTHWEST CORPORATION

3. Address and Telephone No.

P. O. Box 612007, Dallas, TX 75261

(214) 753-6900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 32-41S-25E 744' FNL & 378' FVL (NW/NW)

5. Lease Designation and Serial No.

14-20-603-373 (BIA)

6. If Indian, Allottee or Tribe Name

Navajo

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

Clay Hill Canyon 32D

9. API Well No.

43-037-31741

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other _____
- ☐ Change of Plans
☒ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Attached please find a map of the Clay Hill pipeline. The proposed pipeline will be $\pm 3681'$ (.70 miles) in length running from the Clay Hill 32D location to the Hillside 6C location. The pipeline will lay on the surface and follow the road.

Estimated line an working pressure is not to exceed 125 max psi, based on equipment specifications. A compressor is not anticipated at this time.

The line will be 2-7/8" od line, 2.441 ID external tar tape wrap with welded connections.

Construction timing will depend on the results of the completion and proposed completion activity for the subject wellbore.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

CC: St of Utah

14. I hereby certify that the foregoing is true and correct

Signed

Title Production Administrator

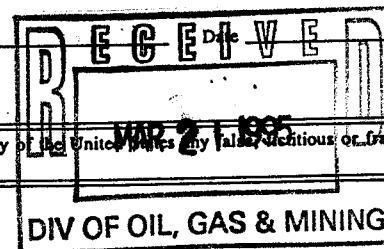
Date 3/20/95

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

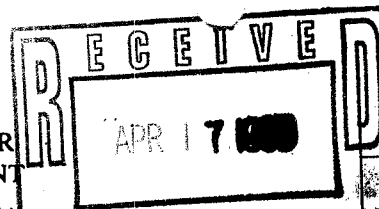
Title



Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statement or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT



FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS OF OIL, GAS & MINING

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.
4-20-603-373 (BIA)

6. If Indian, Allottee or Tribe Name
NAVAJO NATION

SUBMIT IN TRIPLICATE

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
HARKEN SOUTHWEST CORPORATION

3. Address and Telephone No.
P. O. Drawer 612007, Dallas, TX 75261 (214) 753-6900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 32-41S-25E 744' FNL & 378' FWL (NW/NW)

7. If Unit or CA, Agreement Designation
N/A

8. Well Name and No.
Clay Hill Canyon 32D

9. API Well No.
43-037-31741

10. Field and Pool, or Exploratory Area
Wildcat

11. County or Parish, State
San Juan Co., UTAH

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

An attempt to complete the subject well was performed during March. On 3/30/95 the well was SI for a 7 day pressure build-up. Currently the results of that data is being analysed.

Present Operations: SHUT-IN WAITING ON ORDERS

***** PLEASE CONSIDER THIS SUBMITTAL CONFIDENTIAL *****

CC: State of Utah

14. I hereby certify that the foregoing is true and correct

Signature

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

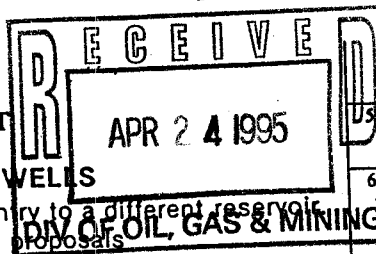
Title Production Administrator

Date 4/10/95

Title

Date

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT



FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reenter to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.

5. Lease Designation and Serial No.
14-20-603-373 (BIA)

6. If Indian, Allottee or Tribe Name
NAVAJO NATION

SUBMIT IN TRIPLICATE

7. If Unit or CA, Agreement Designation

N/A

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.

Clay Hill Canyon 32D

2. Name of Operator

HARKEN SOUTHWEST CORPORATION

9. API Well No.

43-037-31741

3. Address and Telephone No.

P. O. Drawer 612007, Dallas, TX 75261 (214)753-6900

10. Field and Pool, or Exploratory Area

Wildcat

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 32-41S-25E 744' FNL & 378' FWL (NW/NW)

11. County or Parish, State

San Juan Co., UTAH

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☐ Other

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

An attempt to complete the subject well was performed during March. On 3/30/95 the well was SI for a 7 day pressure build-up. Currently the results of that data is being analysed.

Present Operations: SHUT-IN WAITING ON ORDERS

***** PLEASE CONSIDER THIS SUBMITTAL CONFIDENTIAL *****

CC: State of Utah

14. I hereby certify that the foregoing is true and correct

Signed

(This space for Federal or State office use)

Approved by
Conditions of approval, if any:

Title

Production Administrator

Date

4/10/95

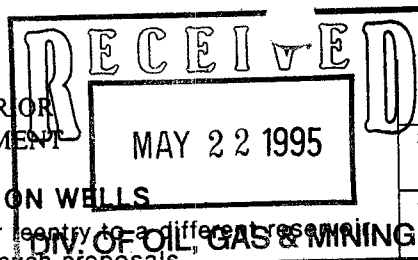
Title

Date

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT



FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.

5. Lease Designation and Serial No.
14-20-603-373 (BIA)
6. If Indian, Allottee or Tribe Name
Navajo Tribal
7. If Unit or CA, Agreement Designation
N/A
8. Well Name and No.
Clay Hill Canyon 32D
9. API Well No.
43-037-31741
10. Field and Pool, or Exploratory Area
Undesignated
11. County or Parish, State
San Juan County, Utah

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Harken Southwest Corporation

3. Address and Telephone No.

P. O. Box 612007, Dallas, Texas 75261-2007 214/753-6900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec. 32-41S-25E 744' FNL & 378' FWL (NW/NW)

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Status
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Pursuant to verbal notification by Rich Cottle, Harken Southwest (HSW) performed a sand frac on the subject well. HSW is currently swabbing the wellbore in an attempt to obtain an economically successful completion.

PLEASE CONSIDER THIS INFORMATION CONFIDENTIAL

cc: State of Utah
Navajo Nation - Minerals

14. I hereby certify that the foregoing is true and correct.

Signed

Title

Production Administrator

Date 5/18/95

(This space for Federal or State office use)

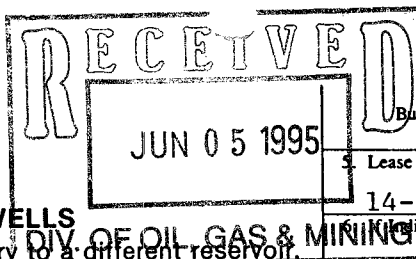
Approved by

Conditions of approval, if any:

Title

Date

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT



FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

Lease Designation and Serial No.

14-20-603-373 (BIA)

Indian, Allottee or Tribe Name

Navajo Nation

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Harken Southwest Corporation

3. Address and Telephone No.

P. O. Box 612007, Dallas, TX 75261-2007 214/753-6900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

NW/NW Sec 32-41S-25E

744' FNL & 378' FWL

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

Clay Hill Canyon 32D

9. API Well No.

43-037-31741

10. Field and Pool, or Exploratory Area

Undesignated

11. County or Parish, State

San Juan, UT

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Status

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Swabbing of the subject wellbore produced minimal amounts of hydrocarbons. Subsequently a the swabbing unit was released on 5/30/95 and a production tree installed.

The well is SI pending engineering evaluation.

CC: State of Utah
Navajo Nation - Minerals Dept
BIA - Gallup, NM

CONFIDENTIAL

14. I hereby certify that the foregoing is true and correct

Signed

Rachelle Montgomery

Title Production Administrator

Date 5/31/95

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other In-
structions on
reverse side)FORM APPROVED
OMB NO. 1004-0137
Expires: February 28, 19955. LEASE DESIGNATION AND SERIAL NO.
14-20-603-373 (BIA)6. IF INDIAN, ALLOTTEE OR TRIBE NAME
NAVAJO NATION7. UNIT AGREEMENT NAME
N/A8. FARM OR LEASE NAME, WELL NO.
CLAY HILL CANYON 32D9. API WELL NO.
43-037-3174110. FIELD AND POOL, OR WILDCAT
UNDESIGNATED11. SEC., T., R., M., OR BLOCK AND SURVEY
OR AREA
Sec. 32-41S-25E12. COUNTY OR
PARISH
San Juan13. STATE
Utah

1a. TYPE OF WELL:

OIL
WELL ☐GAS
WELL ☐DRY ☐Other ☐

b. TYPE OF COMPLETION:

NEW
WELL ☒WORK
OVER ☐DEEP-
EN ☐PLUG
BACK ☐DIFF.
REVR ☐Other ☐

2. NAME OF OPERATOR

HARKEN SOUTHWEST CORPORATION

3. ADDRESS AND TELEPHONE NO.

P. O. Box 612007 Dallas, TX 75261

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 744' FNL & 378' FWL (NW/NW)

At top prod. interval reported below

At total depth

474' FNL & 859' FWL

14. PERMIT NO.
31741DATE ISSUED
8/24/9415. DATE SPUDDED
02/01/9516. DATE T.D. REACHED
02/15/9517. DATE COMD (Ready to prod.)
N/A 5/30/9518. ELEVATIONS (DF, RKB, RT, GR, ETC.)*
4652' GR/4665' KB

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD
5665' MD/5569' TVD21. PLUG, BACK T.D., MD & TVD
5616' MD22. IF MULTIPLE COMPL.,
HOW MANY*
No23. INTERVALS
DRILLED BY
→ROTARY TOOLS
0-TD

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

SI Pending Engineering Evaluation

25. WAS DIRECTIONAL
SURVEY MADE
Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN

Dipmeter/ML/SD-DSN/DL/LSS/CBL

5-30-95

27. WAS WELL CORRED
Yes

28. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8-5/8" J-55	24.0	426'	12-1/4"	310 sx CLB-cmt to surf.	0
5-1/2" K-55	15.5	5663'	7-7/8"	Stage cmt: 139 sx C1 G+	0
				725 sx C1 B circ to pit	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	5477' KB	

31. PERFORATION RECORD (Interval, size and number)

4 JSPF, 90° phasing, 0.45" dia.
5544-49'; 5537-41'; 5528-32';
5514-20'; 5497-5503'; 5491-94'

"DCR"

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5544-49'	150 gal 15% HCL NEA
5537-41'	600 gal 15% HCL NEA
5528-32'	300 gal 15% HCL NEA

*** Continued on reverse

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
N/A						SI	
DATE OF TEST	HOURS TESTED	CHOKER SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
			→				
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
		→				f	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

Logs/Directional Survey/Core Analysis

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Montgomery

TITLE

Production Administrator

DATE 7/24/95

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

** CC: State of Utah, BIA & Navajo Nation

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	GEOLOGIC MARKERS		
				NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Desert Creek	Core #1 5489'	5549'	Core Analysis Attached	Hermosa	4381'	4369'
	Core #2 5549'	5609'		Upper Ismay	5271'	5201'
				Hovenweep Sh	5393'	5314'
				Lower Ismay	5399'	5320'
				Gothic Shale	5440'	5358'
				Desert Creek	5461'	5378'
				Chimney Rock Shale	5628'	5533'
				Akah (?)	5638'	5542'

#32 Continued

5514-20' 900 gal 15% HCL NEA
 5497-5503' 750 gal 15% HCL NEA
 5491-5494' 450 gal 15% HCL NEA

Sand frac well; Boragel & Brady Sand as follows @ ± 21.5 BPM:

1-Pad 15,000 gal 30# Linear Gel
 2-SLF 2000 gal Boragel G3290 1lb/gal 20/40 Brady Sand (2000 lb)
 3-SLF 15,000 gal Boragel G3290 2lb/gal 20/40 Brady Sand (30,000 lb)
 4-SLF 12,000 gal Boragel G3290 3lb/gal 20/40 Brady Sand (36,000 lb)
 5-SLF 5000 gal Boragel G3290 4lb/gal 20/40 Brady Sand (20,000 lb)
 6-SLF 2500 gal Boragel G3290 5lb/gal 20/40 Brady Sand (12,500 lb)
 7-Flush 2120 gal 30# Linear Gel
 Trickle 1 sx of sand in pad to clean perfs. Avg treating pressure of 5600 psi (tbg)

ISIP 4100 psig,
 5 min SIP 3956 psig
 10 min sip 3877 psig
 15 min SIP 3826 psig
 SI w/3856 psig

Halliburton Drilling Systems

Survey Report

Page 1

Job No: 32-D

Date: 2/12/95

Time: 10:48 pm

Wellpath ID: SURVEY

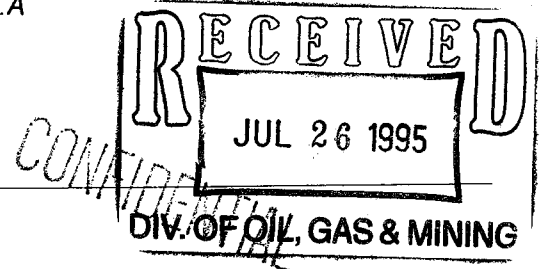
Date Created: 2/6/95

Last Revision: 2/12/95

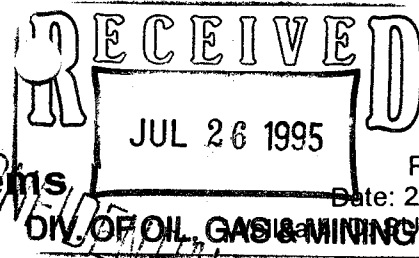
Calculated using the Minimum Curvature Method
Computed using WIN-CADDS REV2.1.A
Vertical Section Plane: 60.11 deg.

Survey Reference: WELLHEAD
Vertical Section Reference: WELLHEAD
Closure Reference: WELLHEAD
TVD Reference: WELLHEAD

Harkens Southwest Corp.
CLAY HILL CANYON 32-D
SAN JAUN CO., UT
Sec.32-T41S-R25E
SURVEY



Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Course Length (ft)	TVD (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)		Closure Dist. (ft)	Dir. (deg.)	DLS (dg/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00@	0.00	0.00
First MWD surv. below csng.										
466.00	1.60	32.80	466.00	465.94	5.78	5.47 N	3.52 E	6.51@	32.80	0.34
676.00	1.50	4.00	210.00	675.87	9.92	10.68 N	5.30 E	11.92@	26.42	0.37
986.00	2.80	332.60	310.00	985.65	12.51	21.45 N	2.10 E	21.55@	5.60	0.55
1297.00	3.50	318.80	311.00	1296.18	10.98	35.33 N	7.65W	36.15@	347.79	0.33
1608.00	2.80	319.40	311.00	1606.71	7.70	48.24 N	18.84W	51.79@	338.67	0.23
1919.00	1.80	321.70	311.00	1917.46	5.58	57.84 N	26.81W	63.76@	335.13	0.32
2230.00	0.80	278.70	311.00	2228.38	3.17	62.01 N	31.99W	69.77@	332.71	0.43
2541.00	1.40	338.90	311.00	2539.33	2.05	65.88 N	35.50W	74.84@	331.68	0.39
2821.00	1.50	357.60	280.00	2819.24	4.27	72.73 N	36.89W	81.55@	333.11	0.17
3132.00	1.50	30.80	311.00	3130.14	9.69	80.30 N	34.97W	87.58@	336.46	0.28
3443.00	1.10	87.20	311.00	3441.07	15.90	83.94 N	29.91W	89.11@	340.39	0.41
3474.00	1.10	89.30	31.00	3472.07	16.43	83.96 N	29.31W	88.93@	340.75	0.13
3513.00	1.10	93.50	39.00	3511.06	17.07	83.94 N	28.56W	88.66@	341.21	0.21
BHA #1: 1.25° mtr. [in @ 3532' MD]										
3576.00	1.60	95.60	63.00	3574.04	18.29	83.81 N	27.08W	88.08@	342.09	0.80
3606.00	2.20	89.40	30.00	3604.02	19.13	83.78 N	26.09W	87.75@	342.70	2.11
3639.00	2.90	89.40	33.00	3636.99	20.41	83.80 N	24.62W	87.34@	343.62	2.12
3670.00	3.50	87.40	31.00	3667.94	21.93	83.85 N	22.89W	86.92@	344.73	1.97
BHA #2: 1.25° mtr. [in @ 3681' MD]										
3700.00	3.70	88.80	30.00	3697.88	23.60	83.91 N	21.01W	86.50@	345.94	0.73
3731.00	3.90	89.80	31.00	3728.82	25.39	83.93 N	18.96W	86.05@	347.27	0.68
3761.00	4.40	92.30	30.00	3758.74	27.25	83.89 N	16.79W	85.55@	348.68	1.77
3792.00	4.80	91.60	31.00	3789.64	29.36	83.81 N	14.30W	85.02@	350.32	1.30
3823.00	5.60	86.40	31.00	3820.51	31.83	83.87 N	11.50W	84.65@	352.19	2.99
3854.00	6.30	85.50	31.00	3851.34	34.72	84.09 N	8.29W	84.50@	354.37	2.28



Halliburton Drilling Systems

Survey Report

Page 2
Date: 2/12/95

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Course Length (ft)	TVD (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)	Closure Dist. (ft)	Dir. (deg.)	DLS (dg/100ft)
3886.00	7.10	81.80	32.00	3883.12	38.14	84.51 N 4.58W	84.64@	356.90	2.84
3917.00	7.50	79.40	31.00	3913.87	41.83	85.16 N 0.70W	85.16@	359.53	1.62
3948.00	8.00	78.20	31.00	3944.59	45.79	85.97 N 3.40 E	86.04@	2.27	1.70
3979.00	8.60	76.80	31.00	3975.26	50.06	86.94 N 7.77 E	87.29@	5.11	2.04
4011.00	9.00	76.70	32.00	4006.89	54.75	88.06 N 12.54 E	88.95@	8.10	1.25
4041.00	9.50	76.50	30.00	4036.50	59.38	89.18 N 17.23 E	90.83@	10.93	1.67
4072.00	9.90	78.50	31.00	4067.05	64.36	90.31 N 22.33 E	93.03@	13.89	1.69
4103.00	10.50	77.60	31.00	4097.56	69.58	91.45 N 27.70 E	95.55@	16.85	2.00
4133.00	11.10	77.30	30.00	4127.03	74.95	92.67 N 33.18 E	98.43@	19.70	2.01
4165.00	11.60	77.00	32.00	4158.41	80.97	94.07 N 39.32 E	101.96@	22.69	1.57
4196.00	12.30	77.00	31.00	4188.73	87.11	95.52 N 45.58 E	105.83@	25.51	2.26
4227.00	12.70	75.80	31.00	4219.00	93.55	97.09 N 52.10 E	110.19@	28.22	1.54
4258.00	13.70	73.60	31.00	4249.18	100.40	98.97 N 58.92 E	115.18@	30.77	3.61
4290.00	14.50	71.30	32.00	4280.22	108.02	101.32 N 66.35 E	121.11@	33.22	3.05
4320.00	15.20	69.80	30.00	4309.21	115.58	103.88 N 73.60 E	127.31@	35.32	2.66
4351.00	16.00	69.00	31.00	4339.07	123.81	106.82 N 81.40 E	134.30@	37.31	2.67
4382.00	16.60	68.50	31.00	4368.83	132.41	109.97 N 89.51 E	141.80@	39.14	1.99
4414.00	17.10	67.70	32.00	4399.45	141.59	113.43 N 98.12 E	149.98@	40.86	1.72
4445.00	17.60	67.20	31.00	4429.04	150.76	116.98 N 106.66 E	158.30@	42.36	1.68
4476.00	18.30	66.10	31.00	4458.53	160.25	120.77 N 115.43 E	167.06@	43.70	2.51
4507.00	18.60	65.80	31.00	4487.94	170.01	124.76 N 124.38 E	176.18@	44.91	1.02
4539.00	18.90	65.60	32.00	4518.24	180.25	129.00 N 133.76 E	185.83@	46.04	0.96
4570.00	19.40	66.50	31.00	4547.53	190.37	133.12 N 143.05 E	195.41@	47.06	1.87
4601.00	19.70	67.10	31.00	4576.74	200.67	137.21 N 152.59 E	205.21@	48.04	1.16
4632.00	20.00	69.00	31.00	4605.90	211.09	141.14 N 162.35 E	215.13@	49.00	2.30
4664.00	20.60	70.20	32.00	4635.91	222.04	145.01 N 172.76 E	225.55@	49.99	2.28
4694.00	20.90	69.50	30.00	4663.96	232.52	148.67 N 182.73 E	235.57@	50.87	1.30
4725.00	21.30	68.60	31.00	4692.88	243.54	152.66 N 193.16 E	246.20@	51.68	1.66
4756.00	21.60	66.50	31.00	4721.74	254.78	156.99 N 203.63 E	257.12@	52.37	2.66
4787.00	21.10	64.70	31.00	4750.61	266.01	161.65 N 213.91 E	268.12@	52.92	2.66
4818.00	20.40	63.50	31.00	4779.60	276.97	166.45 N 223.79 E	278.90@	53.36	2.64
4849.00	19.70	63.10	31.00	4808.72	287.58	171.22 N 233.28 E	289.38@	53.72	2.30
4880.00	20.00	63.10	31.00	4837.88	298.09	175.99 N 242.67 E	299.77@	54.05	0.97
4911.00	20.30	63.30	31.00	4866.98	308.76	180.80 N 252.20 E	310.31@	54.36	0.99
4942.00	20.80	64.10	31.00	4896.01	319.62	185.62 N 261.96 E	321.06@	54.68	1.85
4973.00	21.00	64.70	31.00	4924.97	330.64	190.40 N 271.93 E	331.96@	55.00	0.94
5004.00	21.10	66.00	31.00	4953.90	341.73	195.04 N 282.05 E	342.92@	55.34	1.54
5035.00	21.10	66.40	31.00	4982.82	352.83	199.55 N 292.26 E	353.89@	55.68	0.46
5066.00	21.20	66.90	31.00	5011.73	363.94	203.98 N 302.53 E	364.87@	56.01	0.67

Halliburton Drilling Systems

Survey Report

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Date: 2/12/95

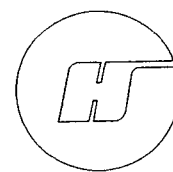
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Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Course Length (ft)	TVD (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)		Closure Dist. (ft)	Dir. (deg.)	DLS (dg/100ft)
5097.00	22.00	65.10	31.00	5040.56	375.29	208.62 N	312.95 E	376.12@	56.31	3.35
5129.00	22.60	65.10	32.00	5070.16	387.39	213.74 N	323.97 E	388.12@	56.59	1.88
5161.00	22.50	66.90	32.00	5099.72	399.59	218.73 N	335.18 E	400.23@	56.87	2.18
5192.00	22.60	68.40	31.00	5128.35	411.38	223.25 N	346.17 E	411.91@	57.18	1.88
5223.00	22.70	70.30	31.00	5156.96	423.16	227.46 N	357.34 E	423.59@	57.52	2.38
5253.00	22.30	70.90	30.00	5184.67	434.45	231.27 N	368.17 E	434.78@	57.86	1.54
5284.00	22.10	71.70	31.00	5213.38	445.94	235.03 N	379.26 E	446.18@	58.21	1.17
5316.00	22.10	72.60	32.00	5243.02	457.71	238.72 N	390.72 E	457.88@	58.58	1.06
5347.00	22.30	72.50	31.00	5271.73	469.15	242.23 N	401.90 E	469.25@	58.92	0.66
5379.00	21.80	70.60	32.00	5301.39	480.92	246.03 N	413.29 E	480.98@	59.24	2.72
5410.00	21.00	67.70	31.00	5330.25	492.09	250.05 N	423.86 E	492.12@	59.46	4.28
Final survey:										
5445.00	21.00	69.10	35.00	5362.93	504.50	254.66 N	435.52 E	504.51@	59.68	1.43
Projection to TD @ present trends:										
5588.00	21.00	74.80	143.00	5496.44	554.60	270.53 N	484.19 E	554.64@	60.81	1.43

CONFIDENTIAL



Harkens Southwest Corp.
 CLAY HILL CANYON 32-D
 SAN JAUN CO., UT
 Sec.32-T41S-R25E
 SURVEY

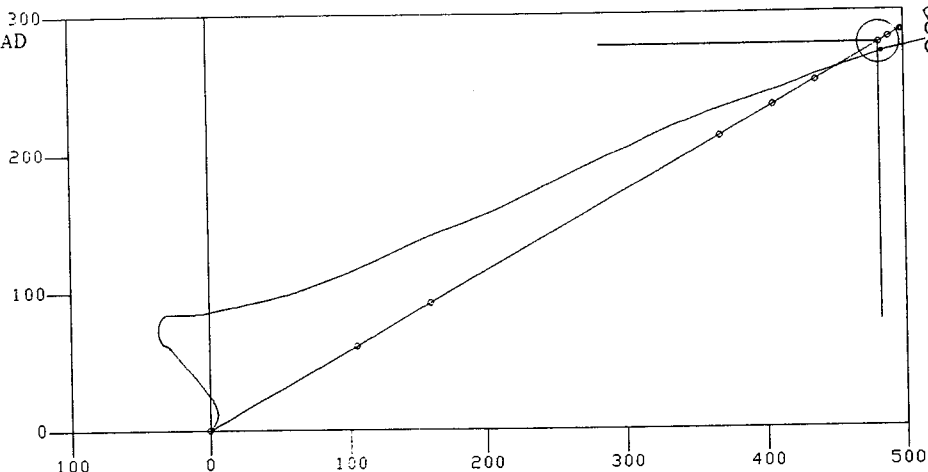
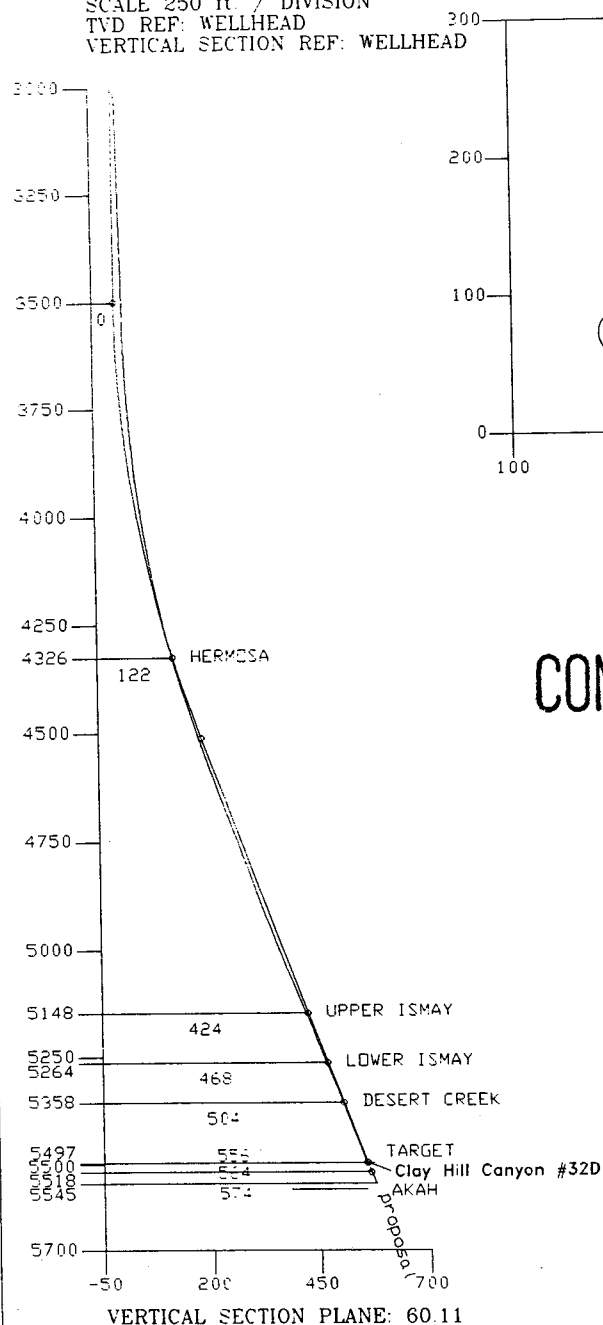


HALLIBURTON

2/12/95 9:52 pm

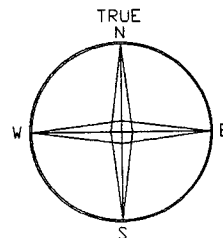
VERTICAL VIEW
 SCALE 250 ft. / DIVISION
 TVD REF: WELLHEAD
 VERTICAL SECTION REF: WELLHEAD

HORIZONTAL VIEW
 SCALE 100 ft. / DIVISION
 SURVEY REF: WELLHEAD



PROPOSED
 Clay Hill
 Canyon #32D

CONFIDENTIAL



HARKEN SOUTH WEST CORP.
CLAY HILL CANYON 32-D
NWSE SECTION 32, T41S - R25E
SAN JUAN COUNTY, UTAH

CORE #1
DESERT CREEK
5489'-5549'
CUT-60' IN 5 1/2 HRS.
RECOVERED-60'

CONFIDENTIAL

5489.0 DOL gy, crpxl dns mtx, abnt ANHY incl-POR fl, n-v rr intxl v rr pp vug POR, NFSOC

5491.0 DOL gy, crpxl dns, rr micsuc-vfxl, v sl arg, tt-rr intxl-tr pp vug POR, fr spty bri yel FLOR, rr ltrn STN, fr mod fast stmg mlky CUT, g OD

5493.0 DOL gy, crpxl, dns, sl arg, tt-v rr pp vug POR, tr orng mnrl FLOR, NSOC

5494.0 DOL gybrn, micxl, sl micsuc, slty ip, arg ip, tr intxl-v rr pp vug POR, FLOR AA, NSOC

5496.0 DOL AA, tr ANHY incl-nod, orng mnrl FLOR, NSOC

5498.0 DOL AA, FLOR AA, NSOC, poss salt xl in mtx

5500.4 DOL brn, micxl-micsuc, sl arg, ANHY xl-rr nod, rr pos salt xl, fr intxl-v rr pp vug POR, n-fnt dull orng mnrl FLOR, NSOC

5502.0 DOL m-dkgybrn-gy, crpxl, occ micxl-micsuc, rthy-slty, rr-tr ANHY nod-xl, tt-v rr intxl-pp vug POR, nfosc

5503.7 DOL ltrn, crpxl, occ micxl, sl slty, ANHY xl-incl, tt-v rr intxl-pp vug POR, NFSOC

5505.7 DOL tan, crpxl, occ micxl-vfxl, micsuc ip, sl arg, abnt ANHY fl POR, n-v rr intxl-v rr pp vug POR, NFSOC

5509.0 DOL AA, incr crpxl, rr ANHY xl, v rr intxl-tr pp vug POR, n-v rr v spty bri yel FLOR, v rr ltrn STN, n-v rr fr mod fast stmg mlky CUT

5511.5 DOL ltrn, micxl-micxu, suc-vfxl ip, g bri yel FLOR, tr-fr ltrn STN, tr g mod fast-fast stmg mlky CUT

5513.5 DOL tan-ty, crpxl, rr micxl-micsuc, rthy-sl slty, rr ANHY fl POR-xl, n-v fnt dull orng-dull yel FLOR, NSOC

5515.3 DOL ltrn-gybrn, crpxl, occ micxl, rthy-sl slty, v sl alg, tr ANHY xl-POR fl, tt, NFSOC

5517.0 DOL tan, crpxl, micxl ip, anhy-ANHY xl-rr incl, tt-v rr pp vug, NFSOC

5518.4 DOL tan, crpxl-micxl, rthy-sl slty, abnt ANHY xl-incl, tr pp vug-rr intxl POR, NFSOC

5520.5 DOL tan, crpxl, v rr micxl-micsuc, ANHY incl-xl, sl slty, tt-v rr intxl-v rr v spty pp vug POR, NFSOC

5522.0 DOL gy, crpxl, sl arg, tt-v rr pp vug POR, NFSOC

5523.7 DOL gy, crpxl dns mtx, sl alg, abnt mic fos, rr ANHY xl, tr pp vug-tr-fr intxl POR, fr-g bri yel FLOR, g dkbrn-blk STN, tr-fr mod fast-fast stmg mlky CUT, fr OD

5525.5 DOL gy, crpxl, dns, rr brac fos, rr ANHY xl, tt-v rr pp vug POR, n-v rr v spty bri yel FLOR, n vis STN, n-v p slow dif-ring CUT

5527.6 DOL gy, crpxl, dns, v rr ANHY fl frac, tt, NFSOC

5530.0 DOL AA, micxl ip, n vis-rr pos frac POR, fr-g bri yel FLOR, n vis STN, n-v rr slow dif CUT

5533.7 DOL gy-ltbrn, crpxl dns mtx, alg, v sl slty, occ v sl arg, rr ANHY xl, occ carb mud incl, tt-tr intxl-v rr pp vug POR, tr-fr dull-bri yel FLOR, rr ltbrn-blk STN, rr-tr slow-mod fast stmg mlky CUT, tr SALT xl on core

5536.5 DOL AA, tr-fr intxl-tr pp vug-arg POR, fr-g bri yel FLOR, tr-fr ltbrn-occ blk STN, fr-g mod fast-fast stmg lky CUT, fr OD, tr SALT xl precipitating out on core

5538.7 DOL AA, tr-fr mic fos, fr intxl-vug POR, g bri yel FLOR, STN-CUT AA, SALT xl AA

5540.9 DOL tan, crpxl dns mtx, alg ip, tr ANHY xl-incl-POR fl, tr mic fos, tt-tr pp vug POR, tr spty bri yel FLOR, n-v rr brn STN, tr fr slow-mod fast stmg mlky CUT, n-v fnt OD

5543.9 DOL gy, crpxl, occ micxl, rthy, occ sl slty, arg ip, ANHY xl-incl, tt-v rr intxl-pp vug POR, NFSOC

5545.0 LS tan, crpxl, dns, tr blk carb SH incl, tr ANHY incl, Crin fos, tt, NFSOC

5546.0 LS AA, abnt Crin-Brac fos, abnt ANHY incl, tt, v rr spty dull yel FLOR, NSOC

5548.0 LS gy-tan, crpxl, dns, abnt ANHY incl, v rr carb SH incl, abnt Brac-Crin fos, tt, NFSOC

CONFIDENTIAL

HARKEN SOUTH WEST CORP.
CLAY HILL CANYON 32-D
NWSE SECTION 32, T41S - R25E
SAN JUAN COUNTY, UTAH

CORE #2
DESERT CREEK
5549'-5509'
CUT-60' IN 6 1/2 HRS.
RECOVERED-60'

CONFIDENTIAL

- 5549.0 LS gy, crpxl dns mtx, rr micxl-micsuc, alg, abnt ANHY fl POR, tt-v rr intxl-pp vug POR, rr spty dull yel FLOR, v rr ltbrn STN, v p slow dif CUT
- 5550.5 LS AA, rr Brac fos, tt-v rr intxl-pp vug POR, FLOR-STN-CUT AA
- 5552.7 LS AA, rr fos, POR-FLOR (strky)-STN-CUT AA
- 5555.5 LS AA, POR (pred ANHY plugged)-STN AA, v p resid ring CUT
- 5558.5 LS AA, tt-n vis POR, v rr v fnt dull orng mnrl-dull yel FLOR, v rr v p ltbrn STN, n-v p resid ring CUT
- 5561.4 LS gy, crpxl dns mtx, alg, abnt ANHY fl alg POR, styol, tt, v rr dull mnrl FLOR, NSOC
- 5564.5 LS AA
- 5567.8 CONTACT LS AA & DOL-tan, crpxl-micxl, occ micsuc, ANHY nods, v sl slty, tr intxl POR, dull orng mnrl FLOR, NSOC
- 5570.0 DOL mbrn, crpxl, occ micxl, dns, styol, rr ANHY nod, tt-v rr dull yel FLOR at styol contact, n-v rr brn STN, n-v p slow stmg-dif mlky CUT
- 5571.3 DOL mbrn, crpxl-micxl, rthy, slty, tt, NFSOC
- 5574.0 DOL brn-mb rn, micxl-micsuc, slty, sl arg, rr ANHY nod-xl, tt-tr intxl POR, fr-g bri yel FLOR, fr slow-mod fast stmg mlky CUT, fr OD
- 5576.5 DOL tan, micxl-crpxl, rthy, sl slty, rr ANHY xl, tt-v rr intxl POR, NFSOC
- 5579.5 DOL ltgybrn, AA, occ micsuc, tr ANHY nod, tt-v rr intxl POR, NFSOC
- 5582.0 CONTACT DOL-AA & LS-gy, crpxl dns mtx, sl alg, abnt ANHY incl-POR fl, n-v rr mnrl FLOR, NSOC
- 5584.3 LS AA, styol, ANHY fl alg POR, NFSOC
- 5587.2 LS AA
- 5589.0 LS AA
- 5593.9 LS gy-tan, crpxl, styol, tr ANHY incl-nod, tt, v rr orng mnrl FLOR, NSOC
- 5596.0 DOL m-dkbrn, crpxl-micxl, occ micsuc, rthy, slty, tr ANHY nod, tt-rr intxl POR, NFSOC, poss wet

5596.9 DOL m-dkbrn, micxl-vfxl, micsuc ip, styol, tr ANHY xl, tt-tr intxl-v rr pp vug POR, fr spty bri yel
FLOR, fr brn STN, fr-g mod fast-fast stmg mlky CUT, fr OD tr SALT on core

5598.0 DOL tan, crpxl-micxl, rthy, sl slty, rr ANHY nod, tt, NFSOC

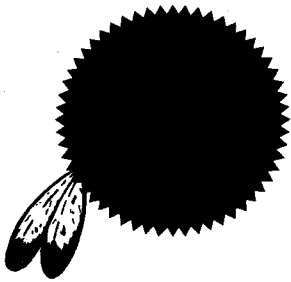
5601.0 DOL ltgybrn-brn, AA, micsuc ip, rr intxl POR, n-v rr spty dull yel FLOR, n vis STN, p resid ring CUT

5604.5 DOL gybrn, AA, POR-FLOR-STN AA, v rr slow-mod fast stymg mlky CUT

5607.0 DOL gy, crpxl, rthy-sl slty, shy-v shy, rr fos frag, tt, NFSOC

5608.8 DOL m-dkgybrn, AA, v shy, grdg to dol SH, tt, NFSOC

CONFIDENTIAL



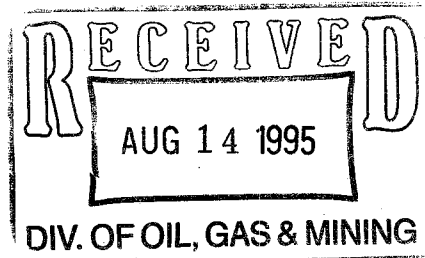
HARKEN SOUTHWEST CORPORATION

(formerly Chuska Energy Company)

DATA TRANSMITTAL

August 11, 1995

Ms. Vicki Dyson
State of Utah
Department of Natural Resources
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203



Dear Ms. Dyson:

Please find enclosed a copy of the following log:

conf.

415 25 E 32

Harken Southwest Corporation
Clay Hill Canyon #32D
San Juan County, Utah
43-037-31741
Acoustic Cement Bond Log ✓

Please sign one copy of this transmittal and return one to me. Thank you.

Rachelle Montgomery
Production Administrator

Received by: _____

Date: _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FEB 16 1996

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other Drilling Shut-In

2. Name of Operator

Harken Southwest Corporation

3. Address and Telephone No.

P.O. Box 612007 Dallas, Texas 75261-2007 (214) 753-6900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

744' FNL & 378' FWL (NW/NW)
Sec. 32-41S-25E

5. Lease Designation and Serial No.

14-20-603-373 (BIA)

6. If Indian, Allottee or Tribe Name

Navajo Nation

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

Clay Hill Canyon 32-D

9. API Well No.

43-037-31741

10. Field and Pool, or Exploratory Area

Undesignated

11. County or Parish, State

San Juan, Utah

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Status (Shut-In)
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Harken Southwest is currently evaluating the subject wellbore for directional/horizontal opportunity. HSW is currently seeking an industry partner to optimize the potential of a commercially economic completion.

The size of the drilling pit has been minimized, for re-entry purpose, and is currently fenced. Therefore, HSW respectfully requests approval to continue a shut-in status.

cc: State of Utah
Navajo Nation
BIA - Gallup, NM

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY**

14. I hereby certify that the foregoing is true and correct

Signed

Title Production Administrator

Date 02/13/96

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONFIDENTIAL

FORM APPROVED

Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other

2. Name of Operator

Harken Southwest Corporation

3. Address and Telephone No.

P.O. Box 612007 Dallas, Texas 75261 (214) 753-6900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Surface: 744' FNL & 378' FWL (NW/NW)
Sec. 32-41S-25E

5. Lease Designation and Serial No.

14-20-603-373 (BIA)

6. If Indian, Allottee or Tribe Name

Navajo Nation

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

Clay Hill Canyon 32D

9. API Well No.

43-037-31741

10. Field and Pool, or Exploratory Area

Undesignated

11. County or Parish, State

San Juan, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other

Status

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

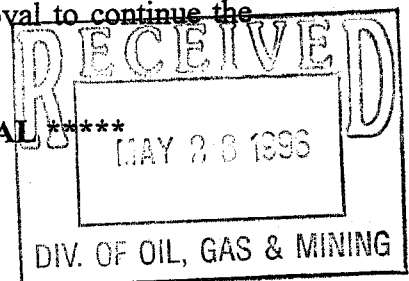
13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The subject well was drilled, casing set and completion attempted prior to maintaining the current status of SI. Subsequent evaluation indicates the main geologic feature has not been penetrated. Harken's staff continues to evaluate all options of lease acquisition, communitization agreement, etc. and various other proposals.

Since the wellbore currently has 8-5/8" csg set @ 426' and 5-1/2" csg set @ 5663' which was purchased new in February of 1995 and cement was circulated to surface, virtually no risk is involved with the current wellbore status. Therefore, Harken request approval to continue the current well status for an additional 12 month period.

**** PLEASE CONSIDER THIS SUBMITTAL CONFIDENTIAL ****

CC: State of Utah
Navajo Nation
BIA - Gallup, NM



14. I hereby certify that the foregoing is true and correct

Signed

Title Production Administrator

Date 05/22/96

(This space for Federal or State office use)

Approved by

Title

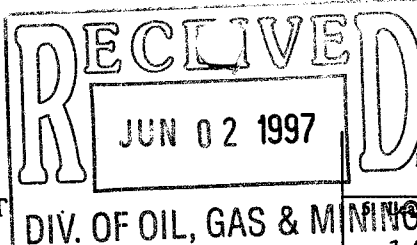
**Accepted by the
Utah Division of
Oil, Gas and Mining**

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT



FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993
Lease Designation and Serial No.

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

14-20-603-373 (BIA)

6. If Indian, Allottee or Tribe Name

Navajo Nation

SUBMIT IN TRIPLICATE

7. If Unit or CA, Agreement Designation

N/A

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other

2. Name of Operator

Harken Southwest Corporation

8. Well Name and No.

Clay Hill Canyon 32

3. Address and Telephone No.

P.O. Box 612007 Dallas, Texas 75261-2007 (972) 753-6900

9. API Well No.

43-037-31741

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Surface: 744' FNL & 378' FWL (NW/NW)
Section 32-41S-25E

10. Field and Pool, or Exploratory Area

Undesignated

11. County or Parish, State

San Juan, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other

Status

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Harken requests approval to maintain the status of SI. The main geologic feature has not been penetrated and Harken's staff continues to evaluate all options of lease acquisition, communitization agreement, etc. and various other proposals.

The wellbore currently has 8-5/8" csg set @ 426' and 5-1/2" csg set @ 5663' which was purchased new in February of 1995 and cement was circulated to surface. Harken's staff does not believe there is any environmental risk associated with maintaining the current well status.

*****PLEASE CONSIDER THIS SUBMITTAL CONFIDENTIAL*****

CC: State of Utah
Navajo Nation
BIA - Gallup, New Mexico

14. I hereby certify that the foregoing is true and correct

Signed

Title Production Administrator

Date 05/30/97

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.
14-20-603-373 (BIA)

6. If Indian, Allottee or Tribe Name

Navajo Nation

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

Clay Hill Canyon 32D

9. API Well No.

43-037-31741

10. Field and Pool, or Exploratory Area

Undesignated

11. County or Parish, State

San Juan Co., Utah

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other

2. Name of Operator

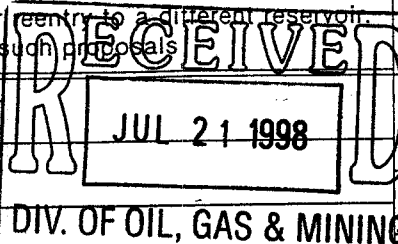
HARKEN SOUTHWEST CORPORATION

3. Address and Telephone No.

P. O. Box 612007, Dallas, TX 75261-2007 (972)753-6900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SURFACE: 744' FNL & 378' FWL (NW/NW)
Section 32-41S-25E



12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other Status
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

HSW believes the main geological feature (algal mound) has not been penetrated and is not within the limits of a legal location on Harken's lease. Therefore, HSW has attempted to discuss joint operations, farmouts, etc with the offset operators. The offset lease has been held by two operators within the past 24 months, and the current owner of record has the majority of their holdings for sale. These circumstances, which are beyond Harken's control, make it virtually impossible to negotiate any type of proposal to perform additional economic operations on this lease at this time.

Harken Southwest (HSW) respectfully request permission to maintain the current wellbore status, of shut-in, for an additional 12 month period. New casing was utilized in the initial drilling of this wellbore and cement was circulated to surface. Harken's staff does not believe there is any environmental risk associated with maintaining the current shut-in status.

COPY SENT TO OPERATOR
Date: 7.27.98
Initials: KDK

CONFIDENTIAL

CC: State of Utah
Navajo Nation - Minerals Dept
BIA - Gallup, NM

14. I hereby certify that the foregoing is true and correct

Signed R. Montgomery

Production Administrator

Date July 15, 1998

(This space for Federal or State office use)

Approved by
Conditions of

Accepted by the
Utah Division of
Oil, Gas and Mining

Title

Date

Title 18 U.S.C. Section 1001 makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations.

FOR RECORD ONLY

*See Instruction on Reverse Side

FINDING OF NO SIGNIFICANT IMPACT

EA-94-103

Harken Southwest Corporation

Section 1, T42S, R24E and Section 6, T42S, R25E


Section 31, T41S, R25E (SLPM)

San Juan County, Utah

Based on the attached final Environmental Assessment (EA) for a proposed drilling of a well under an Application for Permit to Drill (APD), pipeline right-of-way and access road, impacting an area of approximately 9.06 acres across Navajo Tribal Trust Lands in San Juan County, Utah, I have determined that by implementation of the agency proposed action and environmental mitigation measures as specified in the EA, the proposed oil development project will have no significant impact on the quality of the human environment. In accordance with Section 102(2) (c) of the National Environmental Policy Act of 1969, as amended, an environmental impact statement will not be required.

This determination is supported by the following findings:

1. The EA disclosed the environmental consequences of the proposed action and identifies three potentially viable alternatives, which includes the "no action" alternative.
2. Protective measures will be levied to protect air, noise and water quality as outlined in Chapter E, Impacts to Affected Environment and Proposed Measures for Mitigation.
3. In compliance with the Endangered Species Act, an informal request for endangered species information from the Navajo Nation Natural Heritage Program was initiated by the project sponsor. A field survey was performed. The proposed action is planned not to jeopardize threatened and endangered species. See Chapter E Section 8.
4. An archeological survey was performed for the project; the survey document recommends clearance for the project. The Navajo Nation Historic Preservation Office has granted conditional clearance for the project; no effect on sites if stipulations of the archeological clearance are followed. The Archeological Clearance document is included in the Appendix.
5. The proposed action would improve the economic and social conditions of the affected Indian community.


Area Environmental Quality Officer

10-4-94
Date



IN REPLY REFER TO:

United States Department of the Interior
BUREAU OF INDIAN AFFAIRS
Navajo Area Office
P. O. Box 1060
Gallup, New Mexico 87305-1060



500/Environmental Quality

OCT 05 1994

Mr. Jim R. Analla
Environmental Assessment Services
Post Office Box 1034
Gallup, New Mexico 87305

RE: Environmental Assessment for Harken Southwest Corporation's
Right-of-Way Approval Request for the Big Sky 6E (6L)
Wildcat Well Access Road and Pipeline, San Juan County, Utah
EA-94-103

Dear Mr. Analla:

The Environmental Assessment (EA) for the proposed project has been reviewed. A Finding of No Significant Impact (FONSI) has been determined for the proposed project. The proposed action will not have a significant impact on the quality of the human and natural environment. Therefore, an environmental impact statement for the project is not required.

The enclosed FONSI determination should be appended to the final environmental assessment submitted to the Bureau of Indian Affairs and all copies prepared for distribution. Thank you for your cooperation

Sincerely,


Acting Assistant Area Director

Enclosure

API Well No: 43-037-31741-00-00 Permit No:

Well Name/No: CLAY HILL CANYON 32D

Company Name: HARKEN SOUTHWEST CORP

Location: Sec: 32 T: 41S R: 25E Spot: NWNW

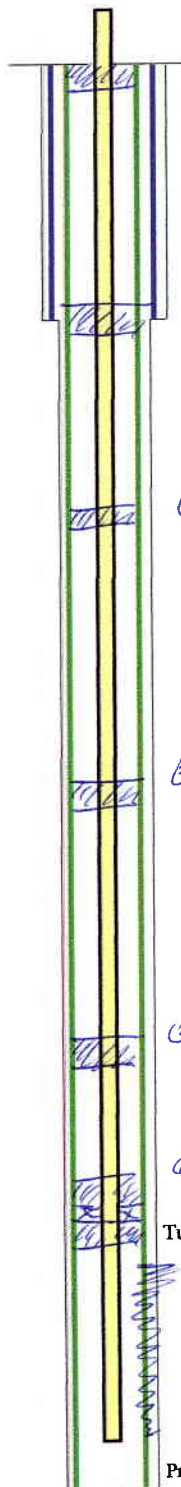
Coordinates: X: 4116596 Y: 659402

Field Name: UNDESIGNATED

County Name: SAN JUAN

String Information

String	Bottom (ft sub)	Diameter (inches)	Weight (lb/ft)	Length (ft)
HOL1	426	12.25		
SURF	426	8.625	24	426
HOL2	5663	7.875		
PROD	5663	5.5	15.5	5663
T1	5477	2.875		



Cement Information

String	BOC (ft sub)	TOC (ft sub)	Class	Sacks
PROD	5663		G	139
PROD	5663		B	725
SURF	426	0	B	310

Perforation Information

5491' - 5494'
 5497' - 5503'
 5514' - 5520'
 5528' - 5532'
 5537' - 5541'
 5544' - 5549'

Formation Information

Formation	Depth	Formation	Depth
HRMS	4381		
ISMY	5271		
HOVNWE	5393		
DSCR	5461		
AKAH	5638		

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other

2. Name of Operator

Harken Southwest Corporation

3. Address and Telephone No.

16285 Park Ten Place, Ste 600, Houston, Tx 77084

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

NW/NW Sec 32-41S-25E
744' FNL & 378' FWL

RECEIVED

NOV 16 2000

DIVISION OF
OIL, GAS AND MINING

5. Lease Designation and Serial No.

14-20-603-373 (BIA)

6. If Indian, Allottee or Tribe Name

Navajo Nation

7. If Unit or CA, Agreement Designation

NA

8. Well Name and No.

Clay Hill Canyon 32D

9. API Well No.

43-037-31741

10. Field and Pool, or Exploratory Area

Undesignated

11. County or Parish, State

San Juan County, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Abandonment CC: State of Utah Navajo Nation - Minerals Department BIA - Gallup, NM	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Harken Southwest plans to convert this well from shut-in status to abandoned:

Mike Flanikan with the Farmington BLM is to be notified at least 24 hours before the plugging operations are commenced (505-599-8907)

1. MIRU CU. Set frac tk. & tubing sills. Install BOP's. Pull Production equipment as required.
2. PU & RIH 5 1/2" cement retainer on tubing & set retainer @ 5,450' KB. Roll hole w/ 130 bbls. produced wtr. Cement w/ Class "B" as follows;
3. Upper Ismay top @ 5,271' / Desert Creek top perf @ 5,491'. 1st plug @ 5,171'- 5,549' (378') 73 sacks (15 bbls. cement). 39 sx (8 bbls) cement below retainer, 34 sx (7 bbls) cement above retainer. LD tubing for plug #2. TOH & LD setting tool. TIH tubing open ended for plug #2.
4. Hermosa top @ 4,381'. 2nd plug @ 4,281'- 4,481' (200') 25 sacks (5 bbls. cement). LD tubing for #3 plug.
5. DeChelly top @ 2,450'. 3rd plug @ 2,350' - 2,550' (200') 25 sacks (5 bbls. cement). LD tubing for #4 plug.
6. Chinle top @ 1,232'. 4th plug @ 1,132' - 1,332' (200') 25 sacks (5 bbls. Cement). LD tubing for #5 plug.
7. Surface casing shoe @ 426'. 5th plug @ 326'- 526' (200') 25 sacks (5 bbls. cement). LD tubing for #6 plug.
8. Surface. 6th plug @ 0'- 100' (100') 13 sacks (2.5 bbls. cement). LD tubing. ND BOP. Remove wellhead.
9. *Install P & A marker 4' below ground level.
10. Reclaim site & re-seed. *Adhere to "BLM CONDITIONS OF APPROVAL" regarding surface rehabilitation. Notify Surface Managing Agency seven days prior to seeding so that they may be present for that operation.

14. I hereby certify that the foregoing is true and correct

Signed

Carolyn Bryant

Title

Regulatory Coordinator

Date

11-13-00

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

COPY SENT TO OPERATOR

Date:

Initials:

11-12-00
CHD

Accepted by the

Utah Division of

Oil, Gas and Mining

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Date:

11/17/2000

By:

John R. By

Federal Approval Of This
Action Is Necessary

*See Instruction on Reverse Side

Clay Hill Canyon 32D

Updated 11/10/00 DJP

Well: Clay Hill Canyon 32D
Surf. Footage: 744' FNL, 378' FWL
Bottom Footage: 474' FNL, 859' FWL
Location: Sec 32 - T41S - R25E
County, State: San Juan, Utah
Field: Undesignated

GR 4652'
KB 4665'

Core #1: 5489-5549'
Core #2: 5549-5609'

Formation	Depth Measured	Depth True Vert
Navajo		578
Chinle		1232
DeChelly		2450
Organ Rock		2671
Cedar Mesa		3351
Kick-off Point		3532
Hermosa	4381	4369
Upper Ismay	5271	5201
Hovenweep Sh	5393	5314
Lower Ismay	5399	5320
Gothic	5440	5358
Desert Creek	5461	5378
Chimney Rock	5628	5533
Akah	5638	5542

8-5/8" 24# J55 @ 426'
Cmtd w/ 310 sx class B to surface

Top of Cement @ 1230'
Chinle @ 1232'

DeChelly @ 2450'

KOP @ 3532'

Hermosa @ 4381'

< DV at 4482'

Upper Ismay @ 5271'

Lower Ismay @ 5399'

Desert Creek @ 5461'

Core Top 5489'

Perf 5491-5494 (3/13/95) 450 gal 15% HCL NEA
Perf 5497-5503 (3/13/95) 750 gal 15% HCL NEA
Perf 5514-5520' (3/13/95) 900 gal 15% HCL NEA
Perf 5528-5532' (3/13/95) 300 gal 15% HCL NEA
Perf 5537-5541' (3/13/95) 600 gal 15% HCL NEA
Perf 5544-5549' (3/13/95) 150 gal 15% HCL NEA
Frac well w/ 100,500# sand, 53620 gal (5/19/95)

Core Bottom 5609'

PBTD: 5616' md

5-1/2" 15.5# K55 csg @ 5663' md. Cmt 139 sx
cl G + 725 sx cl B. Circ to pit

TVD @ 5569'
MD @ 5665'

NOV 16 2000

DIVISION OF
OIL, GAS AND MINING

Clay Hill Canyon 32D

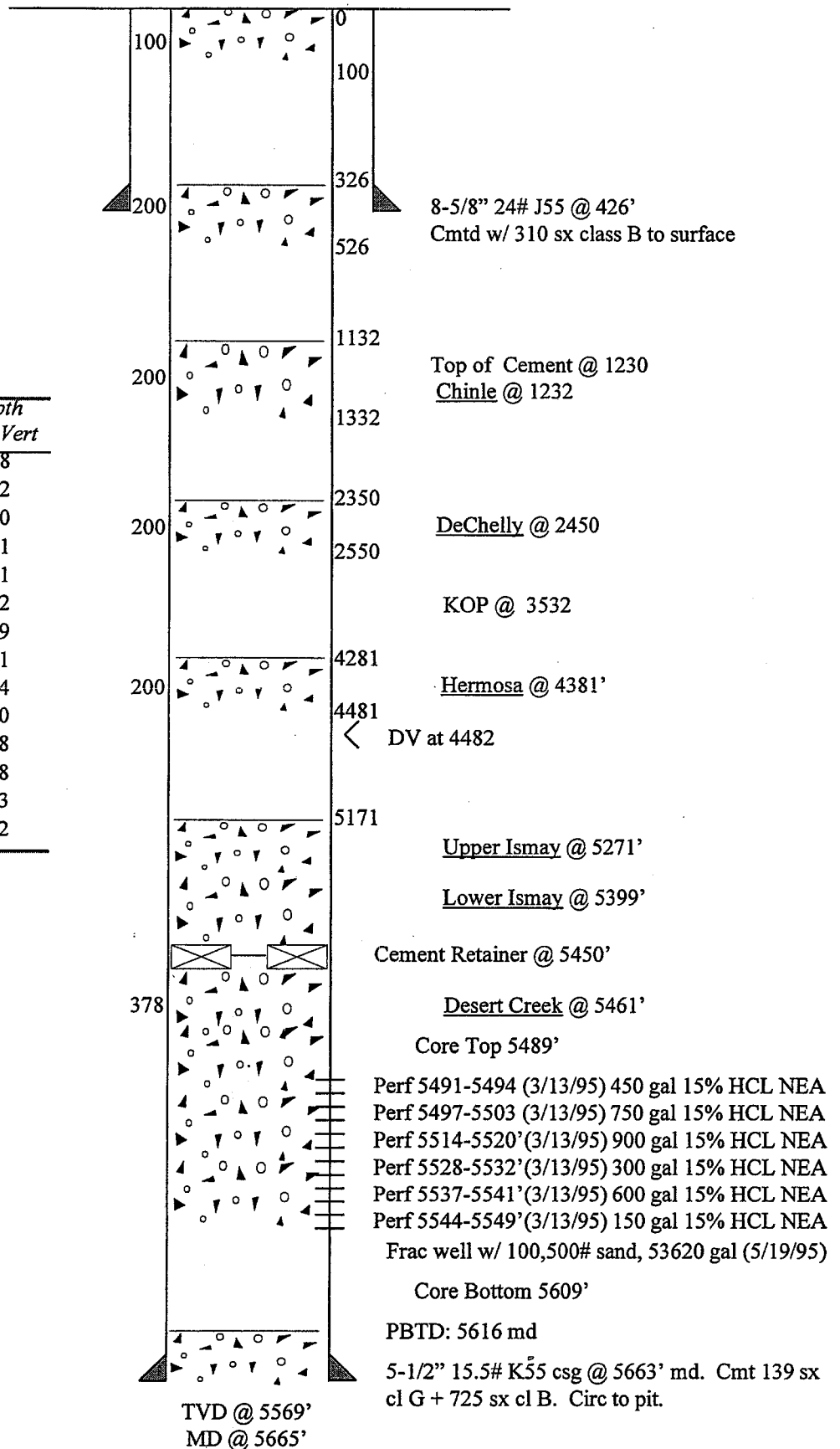
Proposal to P&A 11/10/00

Well: Clay Hill Canyon 32D
Surf. Footage: 744' FNL, 378' FWL
Bottom Footage: 474' FNL, 859' FWL
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Chimney Rock	5628	5533
Akah	5638	5542



STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
 1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS

HARKEN Susan Herrera
~~RIM~~ SOUTHWEST CORPORATION
 C/O HOLCOMB OIL AND GAS, INC.
 PO BOX 2058
 FARMINGTON, NM 87499-2058

UTAH ACCOUNT NUMBER: N9290

REPORT PERIOD (MONTH/YEAR): 02/2001

AMENDED REPORT ☐ (Highlight Changes)

WELL NAME			Producing Zone	Well Status	Well Type	Days Oper	Production Volumes		
API Number	Entity	Location					OIL (BBL)	GAS (MCF)	WATER (BBL)
NAVAJO TRIBAL 23-13									
4303730971	09420	40S 24E 13	DSCR	P	OW	28	1,071	551	2,296
NAVAJO TRIBAL 41-2									
4303731041	09437	42S 24E 02	DSCR	P	OW	19	174	23	0
NAVAJO TRIBAL 32-26									
4303731060	09990	40S 22E 26	DSCR	P	OW	8	104	291	0
NAVAJO TRIBAL 14-10									
4303730977	10130	40S 24E 05	DSCR	P	OW	28	93	0	0
SAHGZIE 1									
4303731472	11032	42S 24E 05	DSCR	P	OW	28	1,025	476	0
ANASAZI 1									
4303731478	11042	42S 24E 05	DSCR	P	OW	28	1,308	1,349	0
CAJON MESA 8D-1									
4303731497	11074	40S 25E 08	DSCR	P	OW	27	245	355	61
MONUMENT 8N-2									
4303731509	11087	40S 25E 08	DSCR	P	OW	28	239	496	0
RUNWAY 10G-1									
4303731515	11105	40S 25E 10	DSCR	S	OW	28	1,412	1,613	432
RUNWAY 10E-2									
4303731550	11128	40S 25E 10	DSCR	S	GW	27	279	917	0
MONUMENT 17E-2									
4303731547	11139	40S 25E 17	DSCR	S	OW	26	157	548	0
LONE MOUNTAIN CREEK 12F-1									
4303731545	11148	42S 24E 12	DSCR	P	OW	22	149	533	12
RUNWAY 10C-5A									
4303731597	11152	40S 25E 10	DSCR	P	OW	24	221	899	40
TOTALS							6477	8051	2841

COMMENTS:

I hereby certify that this report is true and complete to the best of my knowledge.

Date: April 13, 2001

Signature

Susan M. Herrera
 Susan M. Herrera

RECEIVED

Telephone Number

(505) 326-0550

APR 17 2001

DIVISION OF
 OIL, GAS AND MINING

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
 1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS

Susan Herrera
 RIM SOUTHWEST CORPORATION
 C/O HOLCOMB OIL AND GAS, INC.
 PO BOX 2058
 FARMINGTON, NM 87499-2058

UTAH ACCOUNT NUMBER:

N9290

REPORT PERIOD (MONTH/YEAR):

02/2001

AMENDED REPORT ☐

(Highlight Changes)

WELL NAME			Producing Zone	Well Status	Well Type	Days Oper	Production Volumes		
API Number	Entity	Location					OIL (BBL)	GAS (MCF)	WATER (BBL)
✓ BLUE HOGAN 1J-1									
4303731562	11161	42S 23E 01	DSCR	P	OW	27	800	778	36
✓ ANASAZI 5L-3									
4303731572	11207	42S 24E 05	DSCR	P	OW	28	1,187	1,284	0
✓ BROWN HOGAN 1A-2									
4303731573	11215	42S 23E 01	DSCR	P	OW	28	297	504	0
✓ STERLING 36L-1									
4303731595	11224	41S 23E 36	DSCR	S	OW	0	0	0	0
✓ MULE 31K (N)									
4303731617	11326	41S 24E 31	DSCR	P	OW	28	308	348	73
✓ NORTH HERON 35C									
4303731616	11479	41S 25E 35	DSCR	S	OW	0	0	0	0
✓ BURRO 31I									
4303731708	11496	41S 24E 31	DSCR	P	OW	28	489	0	0
✓ JACK 31G									
4303731709	11497	41S 24E 31	DSCR	S	OW	0	0	0	0
✓ MULE 31M									
4303731710	11498	41S 24E 31	DSCR	P	OW	28	1,074	333	120
✓ BIG SKY 6E (6L) 1									
4303731714	11722	42S 25E 06	DSCR	P	OW	26	262	551	0
✓ CLAY HILL CANYON 32D									
4303731741	11734	41S 25E 32	DSCR	TA	NA	0	0	0	0
✓ ANASAZI 6H-1									
4303731744	11773	42S 24E 06	DSCR	P	OW	28	205	303	0

TOTALS

4622

4101

229

COMMENTS:

I hereby certify that this report is true and complete to the best of my knowledge.

Date:

April 13, 2001

Signature

Susan M. Herrera
 Susan M. Herrera

RECEIVED

Telephone Number

(505) 326-0550

APR 17 2001

DIVISION OF
 OIL, GAS AND MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <u>SEE ATTACHED</u>		5. LEASE DESIGNATION AND SERIAL NUMBER: <u>SEE ATTACHED</u>
2. NAME OF OPERATOR: <u>RIM Southwest Corporation</u>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <u>Navajo</u>
3. ADDRESS OF OPERATOR: <u>P.O. Box 145</u> CITY <u>Farmington</u> STATE <u>NM</u> ZIP <u>87499</u>		7. UNIT or CA AGREEMENT NAME: <u>SEE ATTACHED</u>
PHONE NUMBER: <u>(505) 327-5531</u>		8. WELL NAME and NUMBER: <u>SEE ATTACHED</u>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <u>SEE ATTACHED</u>		9. API NUMBER: <u>SEE ATTACH</u>
COUNTY: <u>San Juan</u>		10. FIELD AND POOL, OR WILDCAT: <u>Greater Aneth</u>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <u> </u>		STATE: <u>UTAH</u>

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Corporate Name Change</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Corporate Name Change from Harken Southwest Corporation to RIM Southwest Corporation, effective December 1, 2000 for reporting requirements.

RECEIVED

APR 27 2001

DIVISION OF
OIL, GAS AND MINING

NAME (PLEASE PRINT) <u>W. J. Holcomb</u>	TITLE <u>Vice-President</u>
SIGNATURE <u>[Signature]</u>	DATE <u>4/23/2001</u>

(This space for State use only)

RIM Southwest Corporation

5 Inverness Drive East
Englewood, Colorado 80112
(303) 799-9828 ext. # 303
(303) 799-4259 (fax)

December 17, 2002

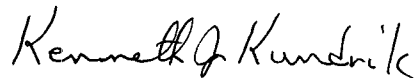
Mr. Stephen Mason
United States Department of the Interior
Bureau of Land Management
Farmington Field Office
1235 La Plata Highway, Suite A
Farmington, New Mexico 87401

Re: Sterling 36L #1 1390' FSL & 250' FWL sec 33 T 41S R 23E, Lse. 14-20-603-248
Clay Hill Canyon #32D 744' FNL & 378' FWL sec 32 T 41S R 25E, Lse. 14-20-603-373
San Juan Co., Utah
Navajo #208 1759' FNL & 1070' FEL sec 2 T 29N R 19W, Lse. NOG-8707-1145
Navajo #157 760' FNL & 585' FWL sec 12 T 29N R 19W, Lse. NOG-8707-1145
Navajo #158 1980' FSL & 1070' FWL sec 12 T 29N R 19W, Lse. NOG-8707-1145
San Juan Co., New Mexico

Dear Mr. Mason:

Rim Southwest Corporation is in receipt of your letter's of December 11, 2002 concerning the Sterling 36L #1 & the Clay Canyon #32D in San Juan Co., Utah and the Navajo #208, #157, & #158 in San Juan Co., New Mexico. RIM Southwest intends to P & A all of the above wells as per the sundry notice's submitted. We are having difficulty obtaining recognition as operator of these wells and others from the Navajo Nation. We will not Plug any wells until we obtain that recognition from the Navajo Nation. Hopefully that recognition will be shortly forth coming as we would like to conduct the work this summer or early fall of 2003. I will try to keep you informed as to our progress in being recognized as operator. Thank you for your patience.

Sincerely,


Kenneth J Kundrik
Operations Engineer

CC: BIA Window Rock,
Navajo Nation Minerals Department, Akhtar Zaman Director

State of New Mexico
Energy, Minerals, & Natural Resources Department

State of Utah
Division of Oil, Gas & Mining

RECEIVED

DEC 19 2002

DIV. OF OIL, GAS & MINING

OPERATOR CHANGE WORKSHEET

ROUTING

1. GLH
2. CDW
3. FILE

Change of Operator (Well Sold)

Designation of Agent/Operator

X Operator Name Change

Merger

The operator of the well(s) listed below has changed, effective:

12/1/2000**FROM:** (Old Operator):

N9290-Harken Southwest Corporation
5 Inverness Drive, East
Denver, CO 80112

Phone: (303) 799-9828

TO: (New Operator):

N1715-Rim Southwest Corporation
PO Box 145
Farmington, NM 87499

Phone: (505) 327-5531

CA No.

Unit:

WELL(S)

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
NAVAJO TRIBAL 32-26	26	400S	220E	4303731060	9990	Indian	OW	S
NAVAJO TRIBAL 14-10	10	400S	240E	4303730977	10130	Indian	OW	P
NAVAJO TRIBAL 23-13	13	400S	240E	4303730971	9420	Indian	OW	P
CAJON MESA 8D-1	08	400S	250E	4303731497	11074	Indian	OW	P
MONUMENT 8N-2	08	400S	250E	4303731509	11087	Indian	OW	P
RUNWAY 10G-1	10	400S	250E	4303731515	11105	Indian	OW	P
RUNWAY 10E-2	10	400S	250E	4303731550	11128	Indian	GW	P
RUNWAY 10C-5A	10	400S	250E	4303731597	11152	Indian	OW	P
MONUMENT 17E-2	17	400S	250E	4303731547	11139	Indian	OW	P
STERLING 36L-1	36	410S	230E	4303731595	11224	Indian	OW	S
MULE 31K (N)	31	410S	240E	4303731617	11326	Indian	OW	P
BURRO 31I	31	410S	240E	4303731708	11496	Indian	OW	P
MULE 31M	31	410S	240E	4303731710	11498	Indian	OW	P
JACK 31G	31	410S	240E	4303731709	11497	Indian	OW	S
CLAY HILL CANYON 32D	32	410S	250E	4303731741	11734	Indian	OW	TA
NORTH HERON 35C	35	410S	250E	4303731616	11479	Indian	OW	S
BLUE HOGAN 1J-1	01	420S	230E	4303731562	11161	Indian	OW	P
BROWN HOGAN 1A-2	01	420S	230E	4303731573	11215	Indian	OW	P
NAVAJO TRIBAL 41-2	02	420S	240E	4303731041	9437	Indian	OW	P
SAHGZIE 1	05	420S	240E	4303731472	11032	Indian	OW	P
ANASAZI 1	05	420S	240E	4303731478	11042	Indian	OW	P
ANASAZI 5L-3	05	420S	240E	4303731572	11207	Indian	OW	P
ANASAZI 6H-1	06	420S	240E	4303731744	11773	Indian	OW	P
LONE MOUNTAIN CREEK 12F-1	12	420S	240E	4303731545	11148	Indian	OW	P
BIG SKY 6E (6L) 1	06	420S	250E	4303731714	11722	Indian	OW	P

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 4/27/20012. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 4/27/20013. The new company was checked on the **Department of Commerce, Division of Corporations** Database on: 6/30/2003

4. Is the new operator registered in the State of Utah: YES Business Number: 794466-0143

5. If **NO**, the operator was contacted on: _____

6. (R649-9-2)Waste Management Plan has been received on: 8/13/2003

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: not given

8. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: n/a

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database** on: 8/26/2003

2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 8/26/2003

3. Bond information entered in RBDMS on: n/a

4. Fee wells attached to bond in RBDMS on: n/a

STATE WELL(S) BOND VERIFICATION:

1. State well(s) covered by Bond Number: n/a

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: n/a

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: RLB0001937

FEE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number n/a

2. The **FORMER** operator has requested a release of liability from their bond on: n/a
The Division sent response by letter on: n/a

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS:

Because this was a merger, all LA and PA wells belong to Rim Southwest also. However, they are still on our computer as Harken Southwest because no list was provided to move them.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
RIM Southwest Corporation

3a. Address
5 Inverness Drive East, Englewood CO 80112

3b. Phone No. (include area code)
(303) 799-9828

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

744' FNL & 378' FWL NWNW sec 32 - Twp 41S - Rge 25E

FORM APPROVED
OMB No. 1004-0135
Expires: January 31, 2004

5. Lease Serial No.
14-20-693-373 (BIA)

6. If Indian, Allottee, or Tribe Name
Navajo Nation

7. If Unit or CA. Agreement Designation
NA

8. Well Name and No.

Clay Hill Canyon 32D

9. API Well No.
43-037-31741

10. Field and Pool, or Exploratory Area
Undesignated

11. County or Parish, State
San Juna Co., Utah

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/ Resume)	<input type="checkbox"/> Water Shut-off	
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other	
	<input type="checkbox"/> Change Plans	<input checked="" type="checkbox"/> Plug and abandon	<input type="checkbox"/> Temporarily Abandon		
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug back	<input type="checkbox"/> Water Disposal		

13. Describe Proposed or Completed Operation (clearly state all pertinent details including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths or pertinent markers and sands. Attach the Bond under which the work will performed or provide the Bond No. on file with the BLM/ BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notice shall be filed only after all requirements, including reclamantion, have been completed, and the operator has determined that the site is ready for final inspection.)

- 1) MIRU Key Well Service on 12/8/2003.
- 2) Rig up to pull tubing circulate hole to produced water.
- 3) POOH and lay down 2 7/8" tubing. Change over and pick up 2 3/8" work string w/ 4 3/4" bit and casing scraper.
- 4) TIH to 5439'. POOH with bit and casing scraper. Laydown bit and casing scraper. Pick up Cement retainer.
- 5) TIH to 5427 w/Cmt. Retainer. Set Retainer. Pressure test casing to 500 psi. No leaks.
- 6) Attempt to establish injection rate into formation. (1/4 bbls/min at 1000 psi). Contacted BLM and Nation Nation Received approval to set plug on top of retainer. Set Plug #1 5427' to 5171' with 30 sxs. Neat Cement.
- 7) Set Plug #2 4487' to 4281' w/ 24 sxs neat cement.
- 8) Set Plug #3 2569' to 2350' w/ 25 sxs neat cement.
- 9) Set Plug #4 1332' to 1132' w/ 25 sxs neat cement.
- 10) Set Plug #5 548' to 348' w/ 25 sxs neat cement.
- 11) Set Plug #6 96' to surface w/ 16 sxs neat cement. All plugs witnessed by Davis Bennallie of Farmington BLM.
- 12) Lay down tubing. RD floor. ND BOP. Dig cellar out. Cut off wellhead 3' below ground level.
- 13) Weld on steel cap w/ Company Name, Legal Description and Well Name on cap. Rig Released 12/11/03

14. I hereby certify that the foregoing is true and correct.
Name (Printed/ Typed)

Kenneth J. Kundrik

Title

Operations Engineer

Signature

Kenneth J. Kundrik

Date

12/21/2003

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 AND Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RECEIVED
DEC 30 2003
DIVISION OF OIL, GAS & MINING

Clay Hill Canyon 32D

Updated 11/10/00 DJP

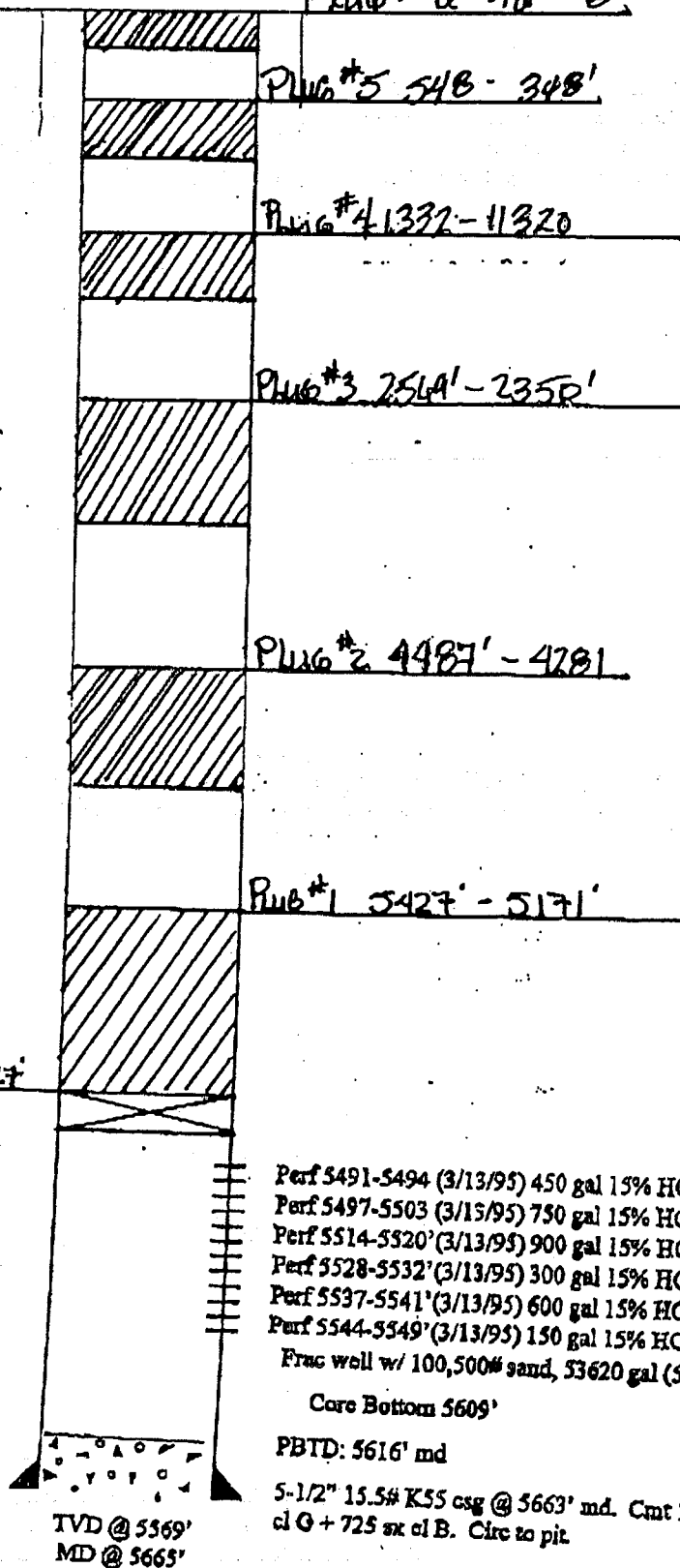
Well: Clay Hill Canyon 32D
Surf. Footage: 744' FNL, 378' FWL
Bottom Footage: 474' FNL, 859' FWL
Location: Sec 32 - T41S - R25E
County, State: San Juan, Utah
Field: Undesignated

GR 4652'
KB 4665'

Core #1: 5489-5549'
Core #2: 5549-5609'

Formation	Depth Measured	Depth True Vert
Navajo		578
Chinle		1232
DeChelly		2450
Organ Rock		2671
Cedar Mesa		3351
Kick-off Point		3532
Hermosa	4381	4369
Upper Ismay	5271	5201
Hovenweep Sh	5393	5314
Lower Ismay	5399	5320
Gothic	5440	5358
Desert Creek	5461	5378
Chimney Rock	5628	5533
Akai	5638	5542

Concrete Retainer 5427'



Perf 5491-5494 (3/13/95) 450 gal 15% HCL NEA
Perf 5497-5503 (3/15/95) 750 gal 15% HCL NEA
Perf 5514-5520' (3/13/95) 900 gal 15% HCL NEA
Perf 5528-5532' (3/13/95) 300 gal 15% HCL NEA
Perf 5537-5541' (3/13/95) 600 gal 15% HCL NEA
Perf 5544-5549' (3/13/95) 150 gal 15% HCL NEA
Frac well w/ 100,500# sand, 53620 gal (5/19/95)

Core Bottom 5609'

PBTD: 5616' md

5-1/2" 15.5# K55 csg @ 5663' md. Cmt 139 ax
cl G + 725 ax cl B. Circ to pit

TVD @ 5569'
MD @ 5665'

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
**Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No.
14-20-693-373 BIA

6. If Indian, Allottee, or Tribe Name
NAVAJO NATION

SUBMIT IN TRIPLICATE – Other Instructions on page 2.

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
CLAY HILL CANYON 32D

9. API Well No.
43-037-31741

10. Field and Pool, or Exploratory Area
Undesignated

11. County or Parish, State
San Juan, UT

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
RIM SOUTHWEST CORPORATION

3a. Address
**5 Inverness Drive East
Englewood, CO 80112**

3b. Phone No. (include area code)
303-799-9828

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
**744' FNL & 378" FWL
NWNW Sec 32-T41S-R25E**

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/ Resume)	<input type="checkbox"/> Water Shut-off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Fracture Treat	<input checked="" type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input checked="" type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with the BLM/ BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamantion, have been completed, and the operator has determined that the site is ready for final inspection.)

This well was plugged and abandoned in December 2003. The location has been reclaimed and is ready for final inspection.

Accepted by the
Utah Division of
Oil, Gas and Mining
For Record Only

14. I hereby certify that the foregoing is true and correct. Name (Printed/ Typed)

Kenneth Kundrik

Title

A&D Manager

Signature

Kenneth J. Kundrik

Date

September 30, 2015

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)